FRED GERST, Pres't. JACOB HEM, Sec'y.

ILLUSTRATED CATALOGUE

OF

GERST BROTHERS

Manufacturing Co., Proprietors

CASS AVENUE

Iron Works and Foundry,

Nos. 800, 802, 804 and 806 Cass Avenue,

ST. LOUIS.

PIERROT & SON, PRINTERS, FOURTH & WASHINGTON AVE.

ILLUSTRATED CATALOGUE

— OF —

Architectural & Ornamental

WROUGHT AND CAST IRON WORK

MANUFACTURED BY

GERST BROS. MNFG. CO.

PROPRIETORS

Cass Ave. Iron Works and Foundry

Nos. 800, 802, 804, 806 CASS AVENUE

ST. LOUIS, MO.

PIERROT & SON, PRINTERS, FOURTH & WASHINGTON AVE.

"Our Motto is to excel and to anticipate the requirements of the present progressive Age"

To Architects, Contractors and Builders.

We take pleasure in presenting this Illustrated Catalogue, our latest edition, which contains a few of our latest and most popular designs, besides much other information pertaining to the architectural branches, which we trust may be found of frequent practical use.

Inviting attention to the extensive facilities of our ***Works,*** *we beg to state, that favored by a large and continuous increase of patronage, and determined to be prepared at all times and under any and all circumstances to serve the best interests of our patrons, we have made* ***large additions to our factory buildings and machinery,*** *and extended the capacity of our Works in every way, so that* ***our facilities for producing Structural Wrought and Cast Iron work*** *of every description* ***are most complete and not to be excelled by any establishment*** *in our line.*

Our Foundry, Pattern and Finishing Shops and Forges are in the hands of the ablest and most skillful mechanics, under the direct supervision of the individual members of the firm; this, with an extensive experience and the aid of the latest and most approved machinery and appliances, secures to us the most economical and best practical results obtainable, enables us to compete successfully with any market, and explains to some extent the flattering success evinced by the growing demand for our work.

Being determined to maintain our pronounced reputation for honorable dealing, for the most rigid compliance with and performance on our part of every requirement of contracts entrusted to us, and for always delivering work satisfactorily at lowest possible prices, we hope to merit a continuance of the same good-will and patronage enjoyed in the past years.

Parties desiring to build Stores, or to use iron work of any description, either on public or private improvements, will find it to their interest to consult us before placing their orders.

Any information or suggestions that may be desired in our line will be cheerfully given.

Respectfully,

GERST BROS. MANUFACTURING CO.,

CASS AVENUE IRON WORKS AND FOUNDRY,

ST. LOUIS, MO.

All our work is finished with a heavy coat of oil and mineral Paint which prevents corrode or rust, and forms a good priming coat for subsequent painting and ornamentations.

IRON STORE FRONTS.

The following illustrations represent only a few of the Patterns we have on hand; the space allotted to this Catalogue permitting of but a limited number of Cuts. We selected a few staple fronts and some of our more recent and original designs, which, from their adaptability to the general wants as well as for their originality and architectural beauty, have already gained much popular favor.

We have an endless variety of Patterns on hand, but are by no means limited to them in taking orders. In fact, the popular taste and requirements vary so much that original designs are very frequently made, especially for buildings of prominence. Our pattern shops, like the other departments, are most complete in their arrangement, and keeping a large force of pattern makers continually employed, we are fully prepared to make new patterns, and can produce work according to original plans, in the shortest possible time.

Where we are not expected to place work in position, as is often the case outside of the city, we would call attention to the fact that all work contracted for by us, is closely jointed and fitted together, as if in position, before leaving our works, and each and every part is so marked that any mechanic can, without trouble, set it in place as exactly as required. As an additional precaution against errors or misunderstandings on the part of those setting up work where we are not represented, we send a sketch and special description with each and every shipment, affording a complete guide for putting the respective parts in place as required.

This system we find of great help, and particularly desirable in such portions of the country where little or no Iron Work has previously been put up.

***Parties contemplating to build** can therefore send orders for Iron work **without the least hesitancy arising from any fear** of not understanding how to place same properly in position.*

The dimensions given on the illustrations are intended merely as a guide to show the sizes mostly used. They can be changed to any length, breadth or height that may be desired.

CASS AVENUE

Iron Works and Foundry.

OFFICE OF

GERST BROS. MANUFACTURING CO.,

800, 802, 804, 806, CASS AVENUE, ST. LOUIS, MO.

MANUFACTURERS OF ALL KINDS OF

Cast and Wrought Iron Work for Buildings and Structures

OF EVERY DESCRIPTION.

Iron Fronts, Columns, Pilasters,
Lintels, Sills, Cornices,
Gratings, Window Guards,
Caps and Sills,
Sash Mullions, Sash Weights
Front Railing,
Balcony Railing & Brackets
Cemetery Railing,
Roof Crestings and Finials,
Wrought Iron Fences,
Iron Doors and Shutters,
Fire Escapes,

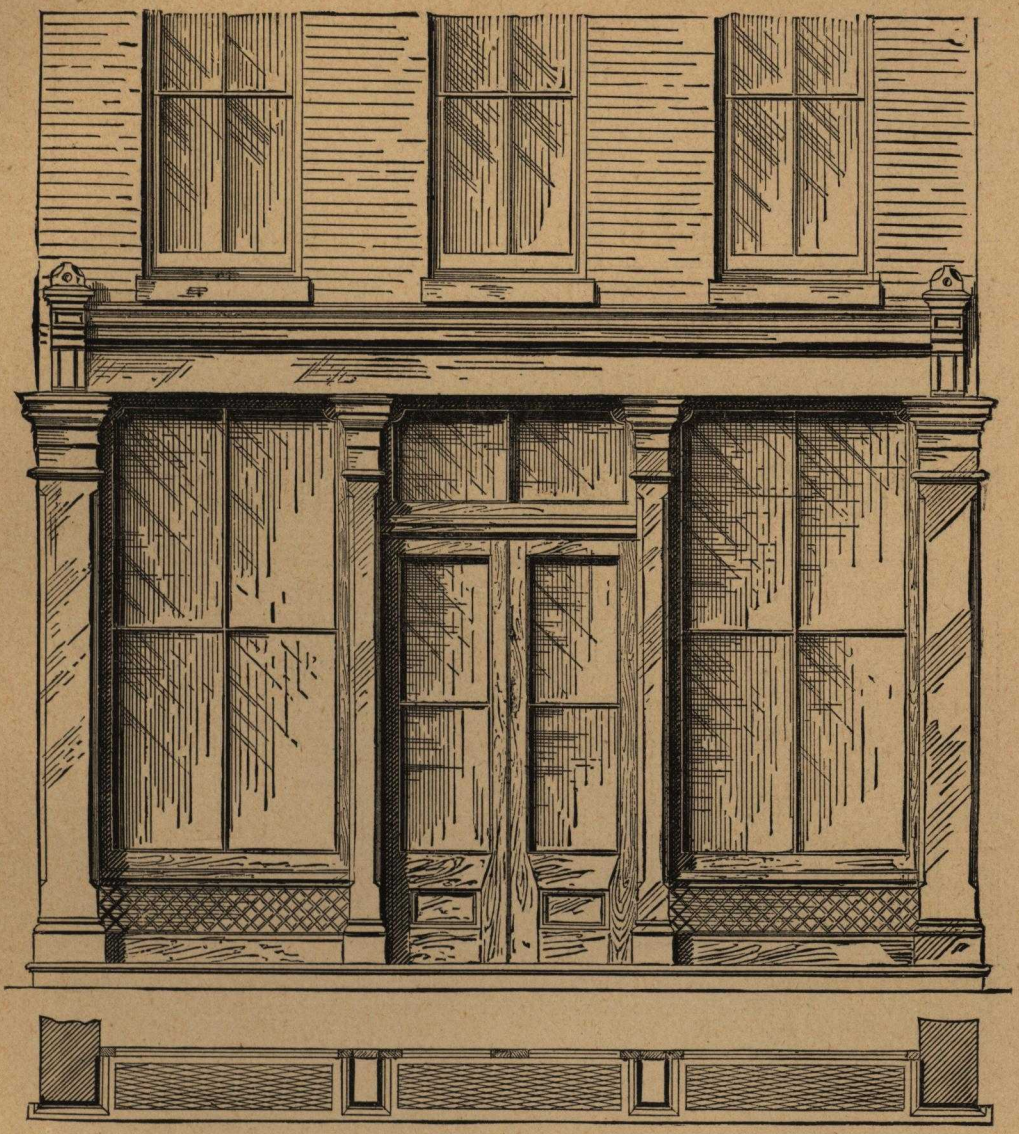
Bank Vaults and Vault Entrances,
Iron Stable Fixtures & Fittings,
Gratings,
Illuminated Tiles,
Iron Stairs, (straight and circular)
Iron Roof Trusses,
Shoes, Rods,
Bolts and Washers,
Girders, Beams,
Flitch Plates, Anchors,
Ventilators,
Corner Guards, &c.

IRON JAIL WORK OF EVERY DESCRIPTION.

Estimates promptly furnished upon Public or Private Works or Buildings.

PROMPT DELIVERY AND FIRST-CLASS WORK WARRANTED AT LOWEST RATES.

IRON STORE FRONTS.



No. 7.

25 FEET WIDE, WITH COLUMNS 12 FEET HIGH,

CONSISTS OF

Two Angle Pilasters, 13 inches by 13 inches by any length.
Two Three Sided Columns, 6 inches by 13 inches by any length.
Sill Course, 15 inches wide, with 6 inch riser, any length.
Box Lintel, 18 inches by 13 inches by 6 inches, any lenghth.
Modillion Cornice, as shown, any length, with Stop Blocks.
Grilles, under Show Windows, any length.

IRON STORE FRONTS.

No. 11.

25 FEET WIDE WITH COLUMNS 12 FEET HIGH.

CONSISTS OF

Two Pilasters 13 inches by 13 inches by any length.
Two intermediate Columns, 6 inches by 13 inches, by any length.
Sill Course, 15 inches wide, with 6 inch riser, any length.
Lintel Plate, any length, 13 inches wide.

IRON STORE FRONTS.

No. 14.

25 FEET WIDE WITH COLUMNS 12 FEET HIGH.

CONSISTS OF

Two Angle Pilasters, 13 inches by 13 inches by any length.
Two Three Sided Columns, 6 inches by 13 inches by any length.
Sill Course, 15 inches wide, with 6 inch riser.
Box Girder, 18 inches by 13 inches by 6 inches.
Molded Cornice, with Stop Blocks, as shown.

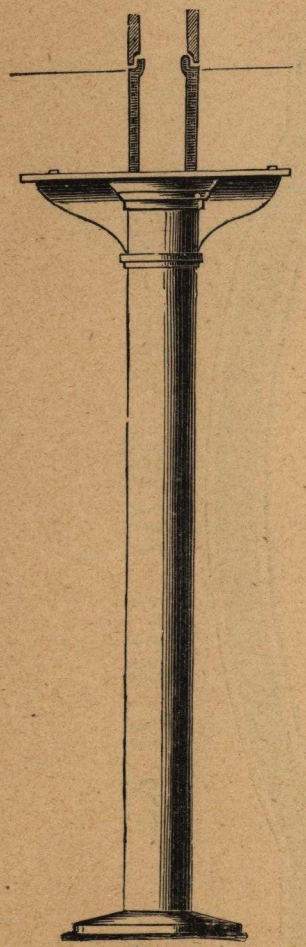
IRON STORE FRONTS.

No. 28.

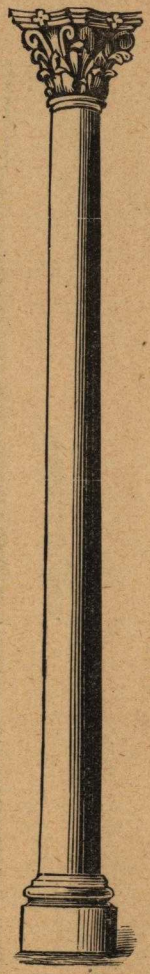
25 FEET WIDE WITH COLUMNS 12 FEET HIGH.

CONSISTS OF

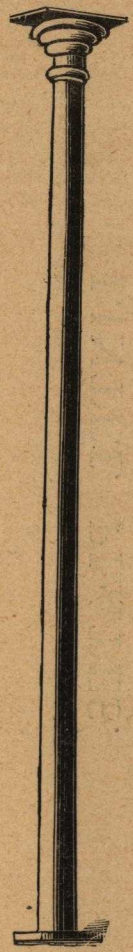
Two Angle Pilasters, 13 inches by 13 inches by any length.
Two Three-sided columns, 6 inches by 13 inches by any length,
One Round Column, 6 inches diameter by any length.
Sill Course, 15 inches wide, with 6 inch riser, any length.
Box Girders, 18 inches by 13 inches by 6 inches, any length.
Cornice, any length.



No. 4.
Any diameter, 4 inches and larger. Any length.



No. 1.
Any diameter, 4 inches and larger. Any length.

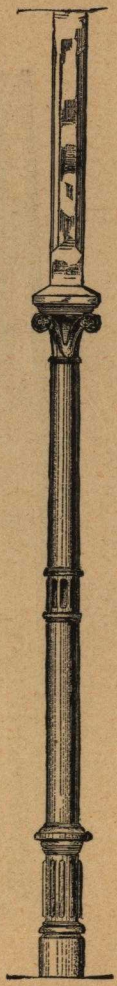


No. 3.
Any diameter, 4 inches and larger, any length.

No. 2.
4 in. diam. | 6 in. diam.
8 in. diam.
Any length.

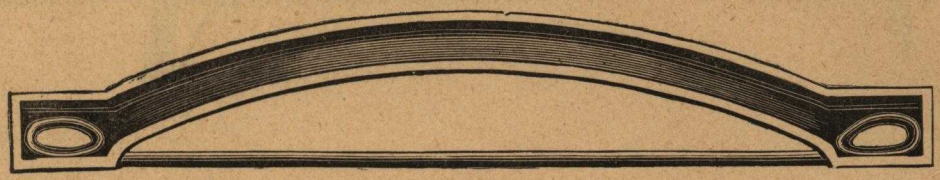
No. 7.
6 in. diam. | 8 in. diam.
10 " | 12 "
Any length.

No. 8.
4 in. diameter only.
Any length.



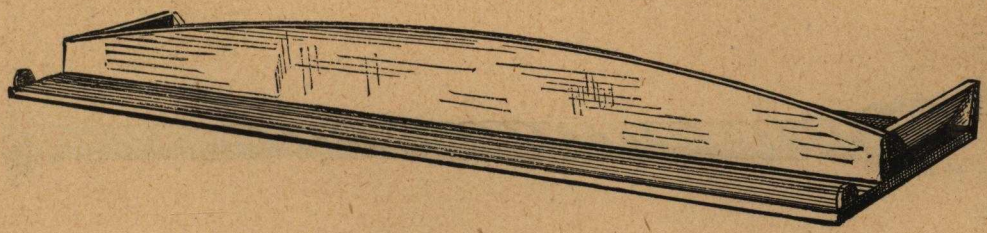
No. 10.
5 in. diameter only.
Any length.

TENSION ROD GIRDERS.



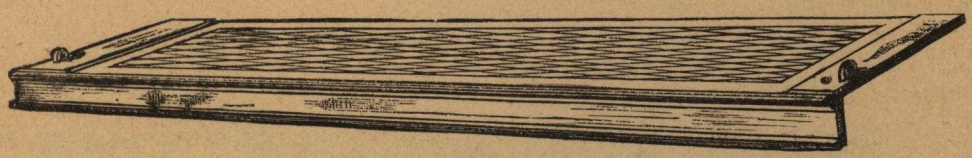
Made any Size.

LINTEL PLATES.

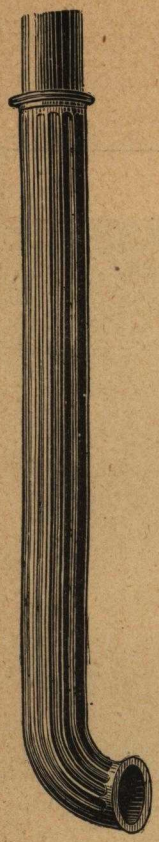


Made any Size.

DOOR SILLS.



Made any Size.



Down Spout Guards.

4 in. and 5 in. inside diameter; 4 feet long
Made any length up to 6 ft.

No. 1.

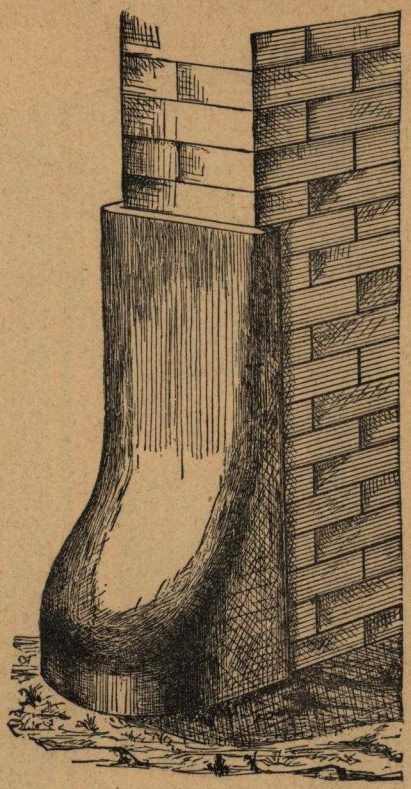
Corner Guard.

4 feet high.

No. 2.

Corner Guard.

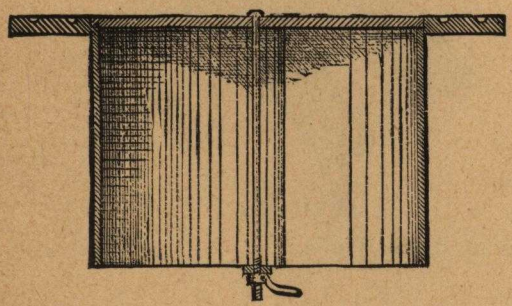
3 feet 6 inches high.
Made any size to order



No. 3.

Wagon Wheel Guard.

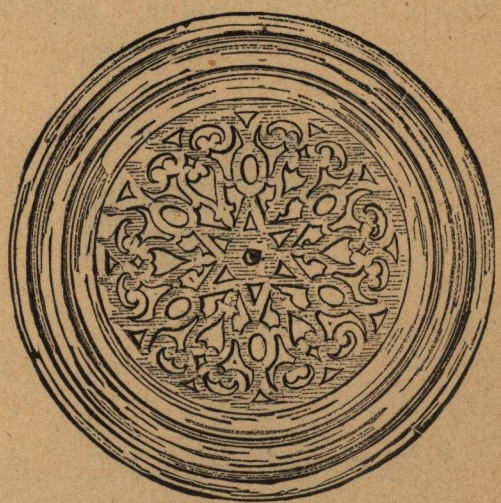
3 feet high.
For 13 and 18 inch wall.



Coal Vault Rings.

No. 1, 18 in. diameter by 13 in. deep.
No. 2, 24 in. diameter by 18 in. deep.

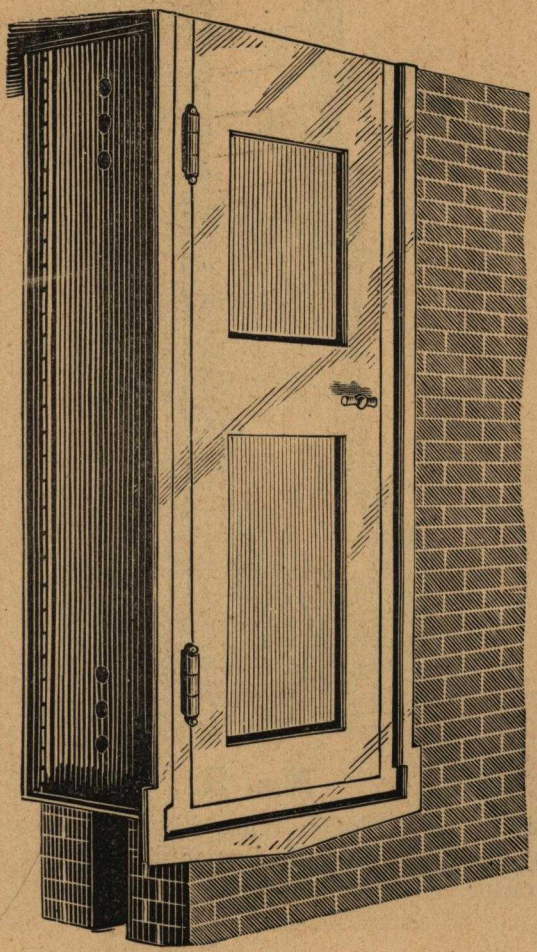
Can be changed to any Depth.



Coal Vault Covers.

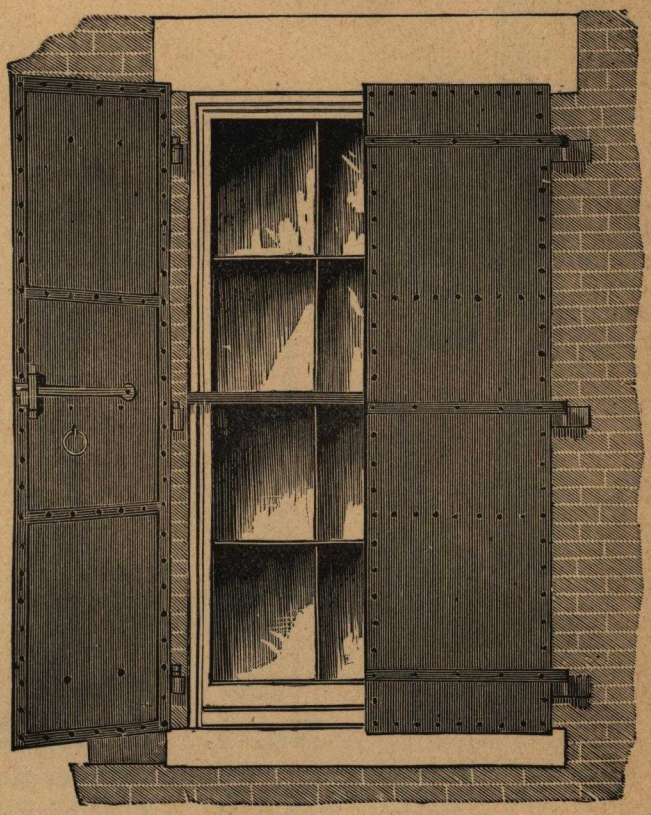
Perforated, Solid and Illuminated.

IRON VAULT ENTRANCES.

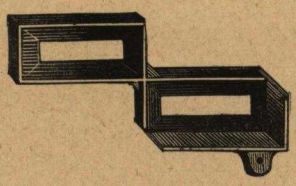


Door 2 ft. 6 in. by 6 ft. 6 in. Jambs 20 in.
Can be made any size.

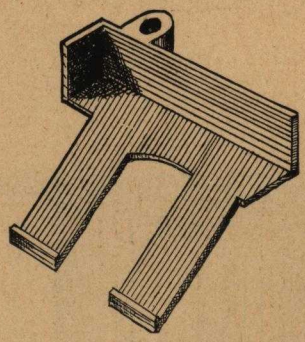
IRON SHUTTERS AND DOORS.



Every Description and Size.



No. 1.



No. 2.

Shutter Hinge Eyes, for building in Brick Walls.

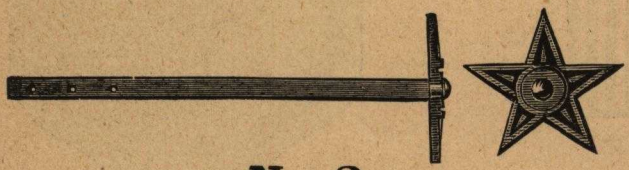
IRON JAIL AND PRISON WORK

Of Every Description A Specialty

ESTIMATES FURNISHED PROMPTLY ON APPLICATION.

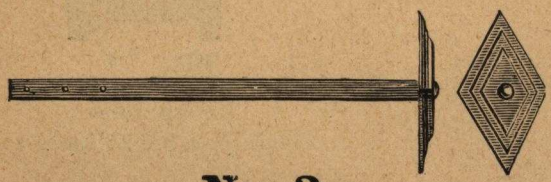
No. 1.

18 inches and 24 inches long.
Any size made to order.



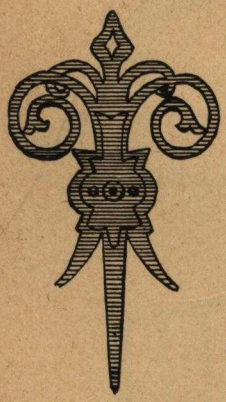
No. 2.

18 inches and 24 inches long.
Any size made to order.



No. 3.

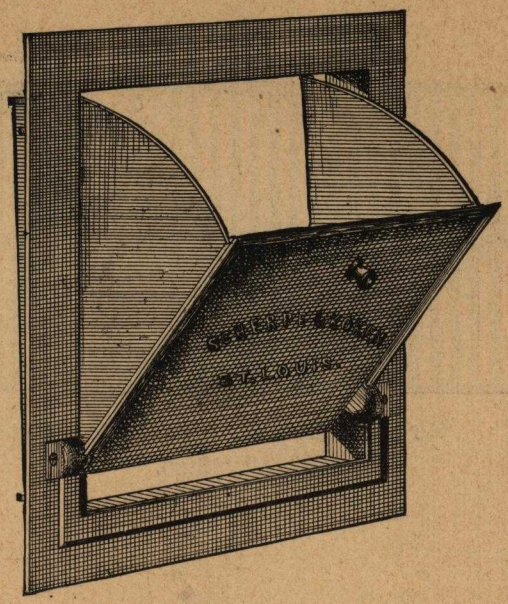
18 inches and 30 inches long.
Any size made to order.



No. 4.

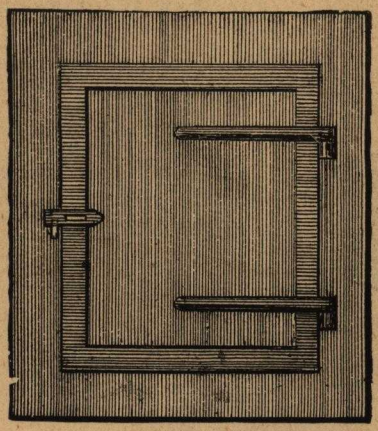
Ornamental Head.

3 feet 4 inches long by 1 foot
11 inches wide.



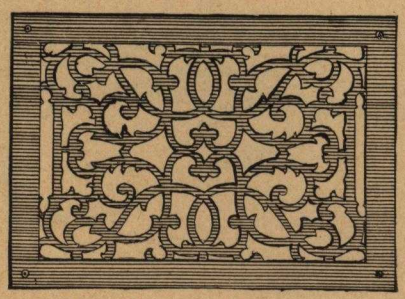
Ash Chute Doors.

15 inches by 15 inches.



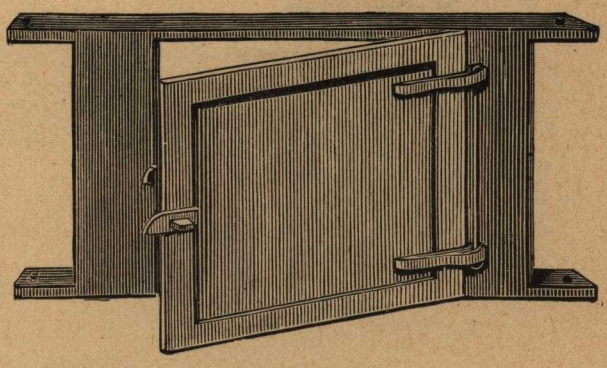
Ash Flue Doors.

10 inches by 12 inches.
12 inches by 12 inches.
16 inches by 16 inches.



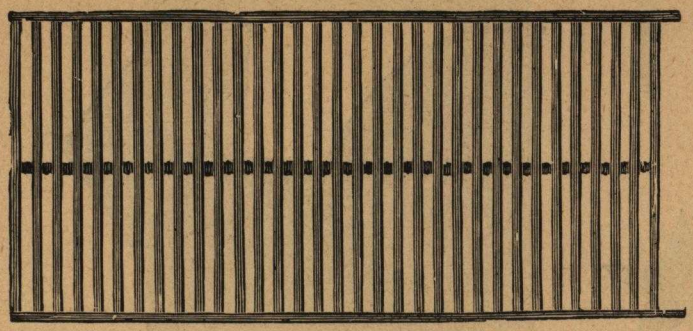
Ventilators.

No. 1, 5	in. by 8¾	No. 6, 5	in. by 14½ in.
No. 2, 5⅛	in. by 10⅞	No. 7, 5	in. by 18 in.
No 3, 7¼	in. by 22½	No. 9, 7½	in. by 15 in.
No. 4, 9¾	in. by 19¼	No. 10, 7	in. by 9 in.
No. 5, 9½	in. by 13¼		

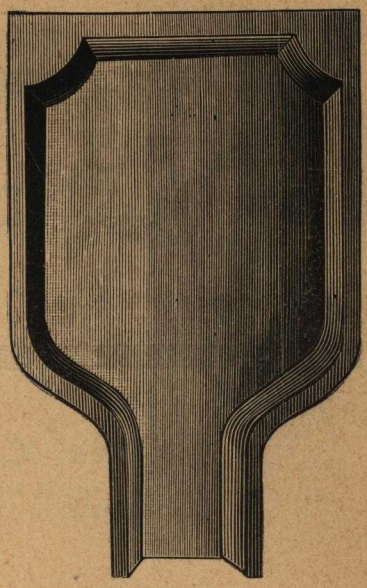


Furnace Doors.

10 inches by 12 inches.
12 inches by 12 inches.
15 inches by 16 inches.

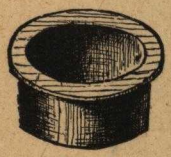


Wrought and Cast Iron Area Grates.
Any Size.



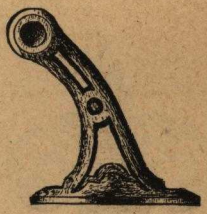
No. 1.
Drip Pan.
13 inches by 21 inches.

FENDERS
For Show Windows and Counters.

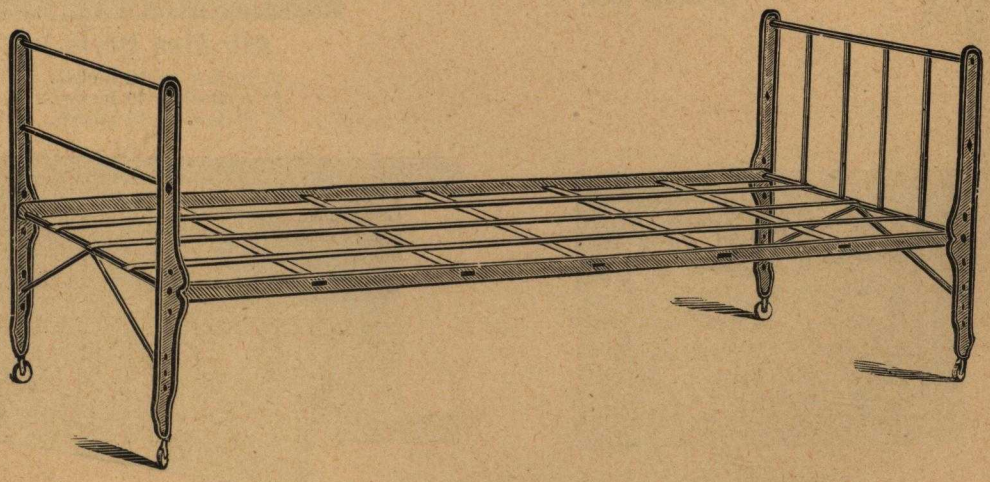


Flue Rings.

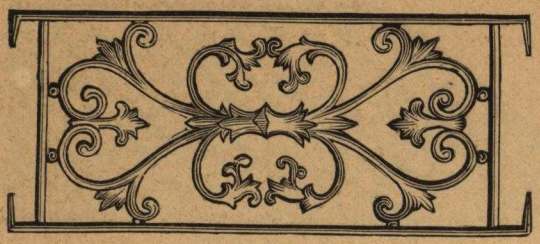
DRAIN GRATES
Of all kinds in stock and made to order.



Foot Rail Brackets.

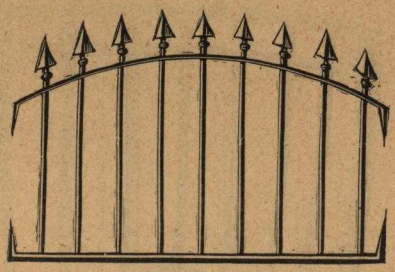


Institution Bedsteads.
2 feet 4 inches by 5 feet 6 inches. | 2 feet 8 inches by 6 feet 2 inches.
Double, 4 feet by 6 feet 4 inches.



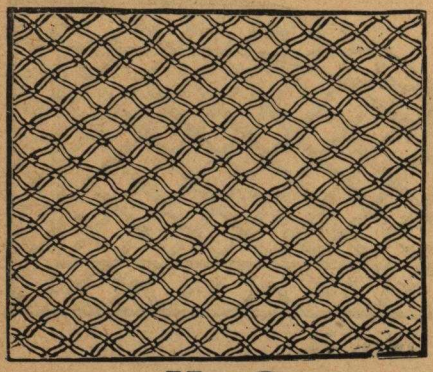
No. 1.

3 feet to 3 feet 6 inches wide.



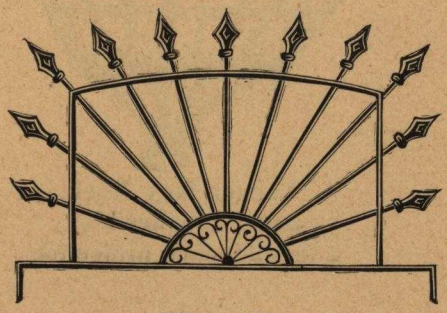
No. 4.

2 ft. high. 3 ft. wide. Any Size.



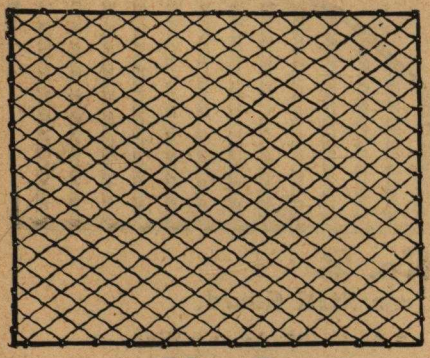
No. 2.

Crimped Wire Guard.—Any Size.



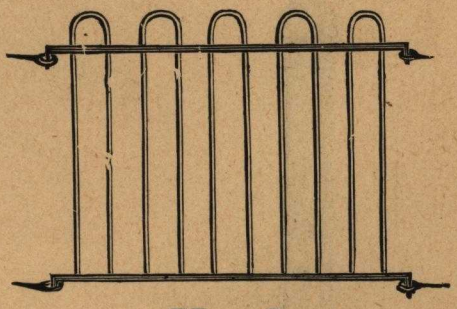
No. 5.

2 feet by 3 feet. Any Size.



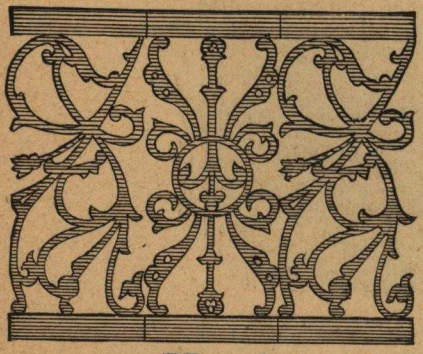
No. 3.

Wire Guard.—Any Size.



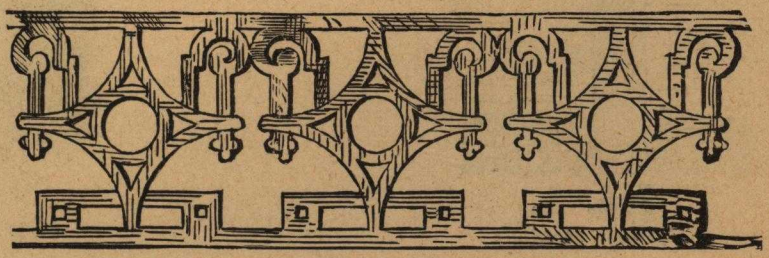
No. 6.

2 feet 6 inches by 2 feet. Any Size.



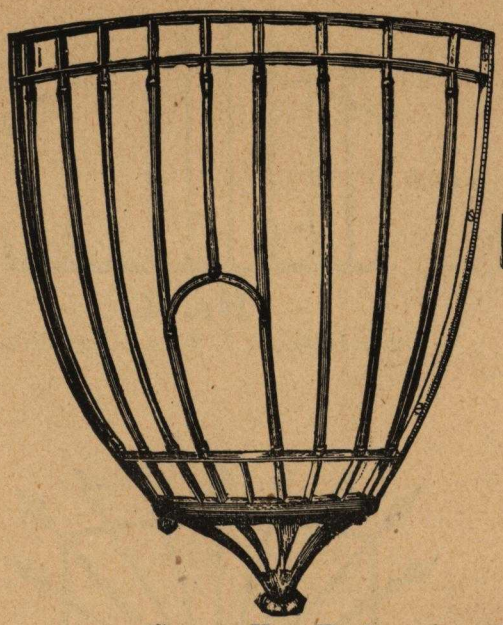
No. 9.

18 inches high. Any Length.

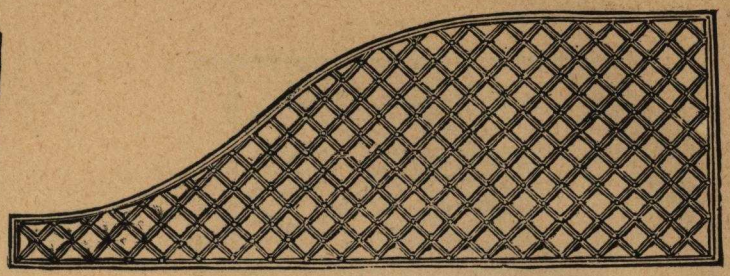


No. 8.

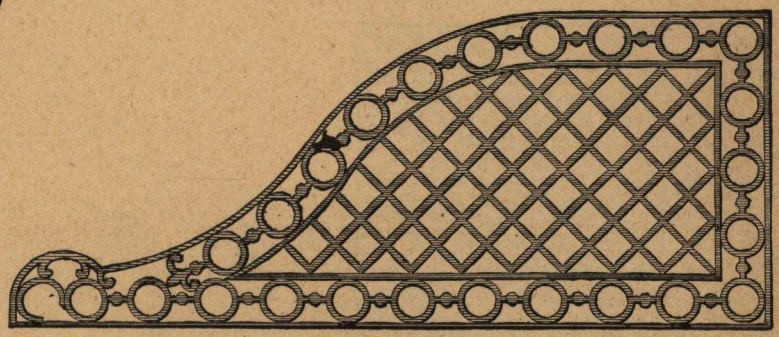
Show Window Guard.—15 inches high. Any Length.



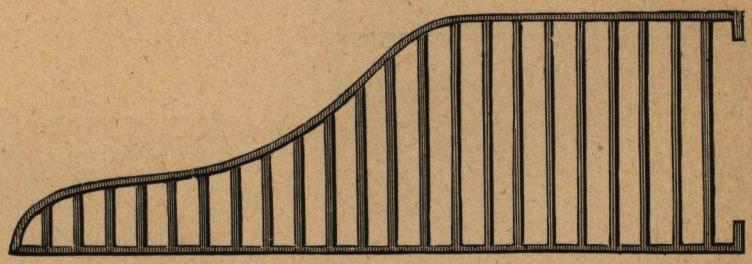
Corner Hay Rack.
3 feet 2 inches high.
2 feet 2 inches projection.



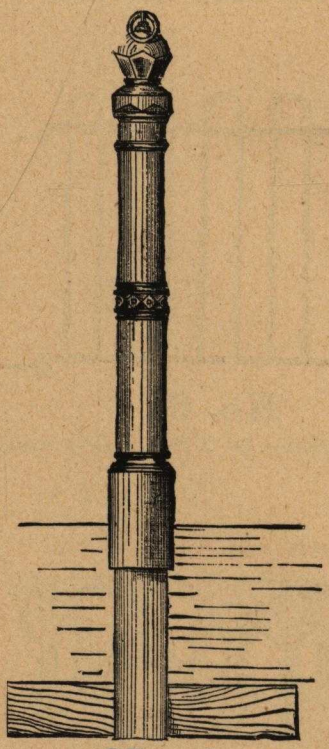
No. 1.
Cast Iron Stall Guard.
8 feet by 2 feet 6 inches.



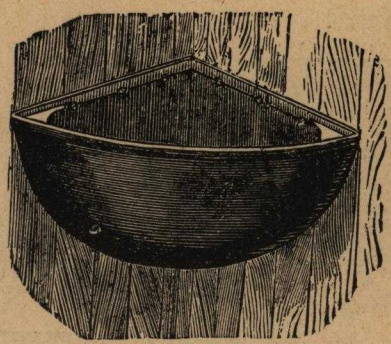
No. 3.
Cast Iron Stall Guard.
5 feet 6 inches by 2 feet 4 inches.



No. 2.
Wrought Iron Stall Guard.
2 feet 6 inches by 7 feet. Made any Size.

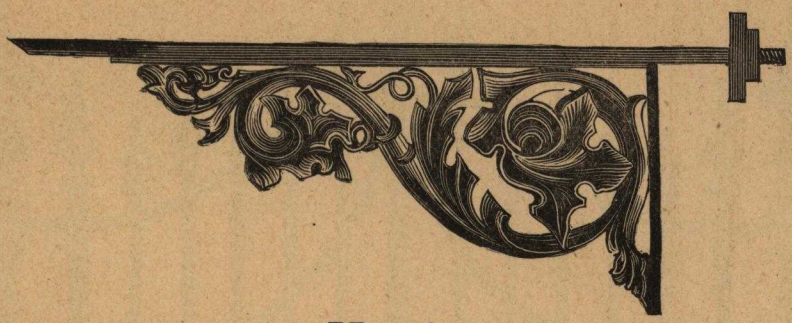


No. 1.
Hitch Post.
3 feet 6 inches high,
18 inches in ground.



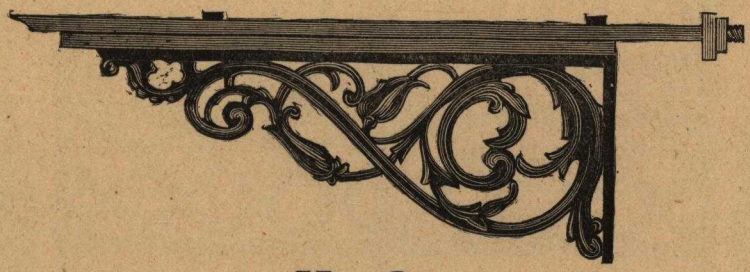
Corner Oat Trough.
18 inches by 18 inches by 12 inches deep.

BALCONY BRACKETS.



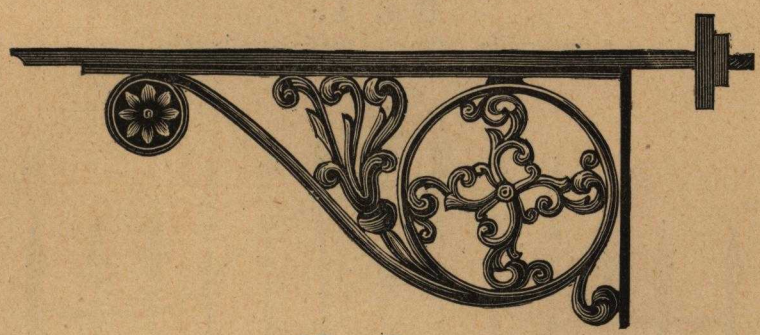
No. 1.

3 feet by 12¼ inches. Made for any thickness of wall.



No. 2.

3 feet by 11½ inches. Made for any thickness of wall.



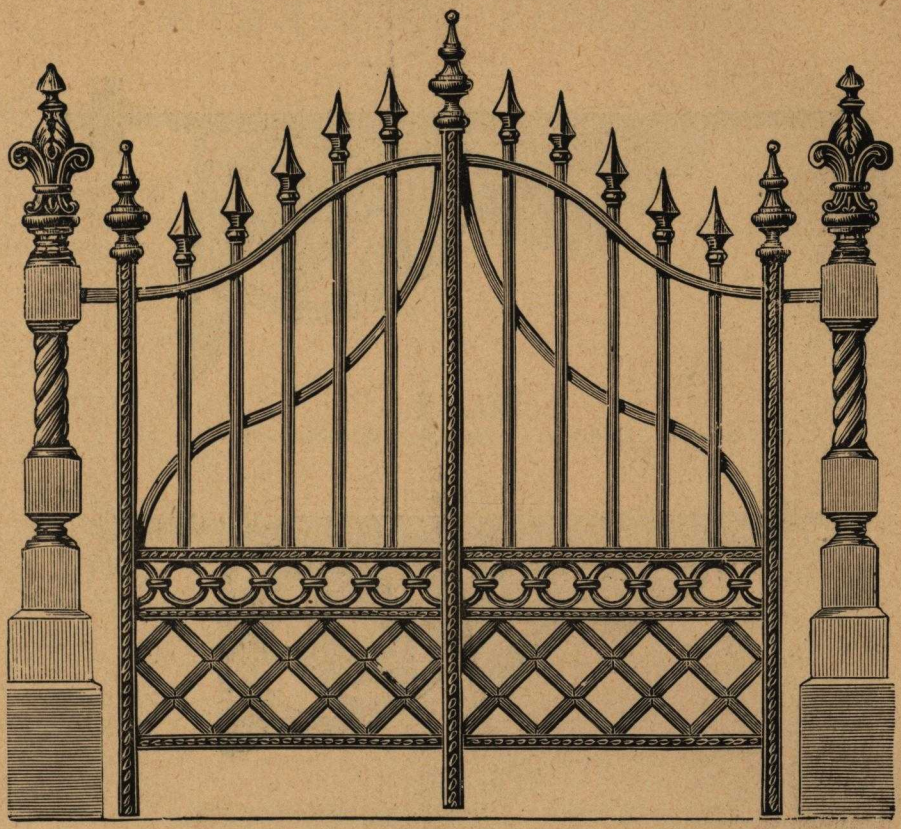
No. 3.

3 feet by 10¾ inches. Made for any thickness of wall.

No. 4.

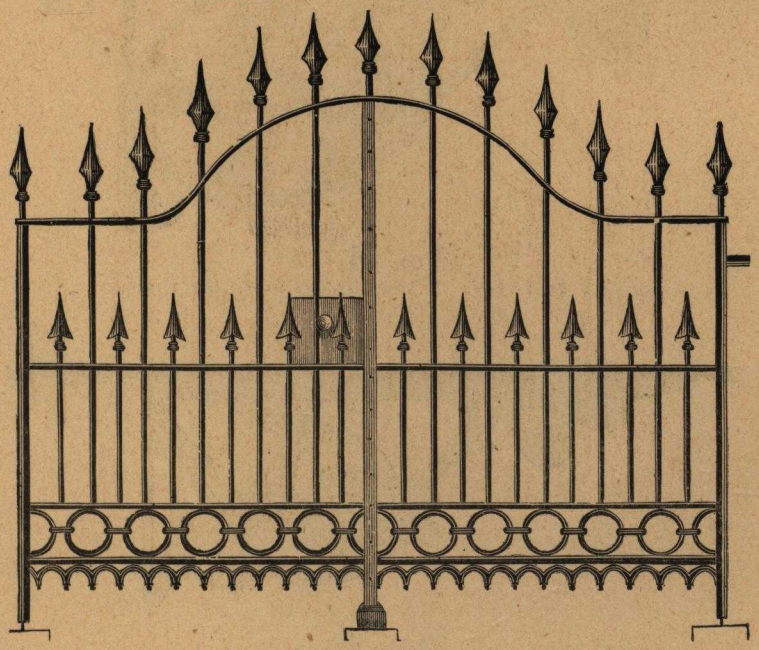
3 feet by 10 inches. Made for any thickness of wall.

GATES.



No. 1.

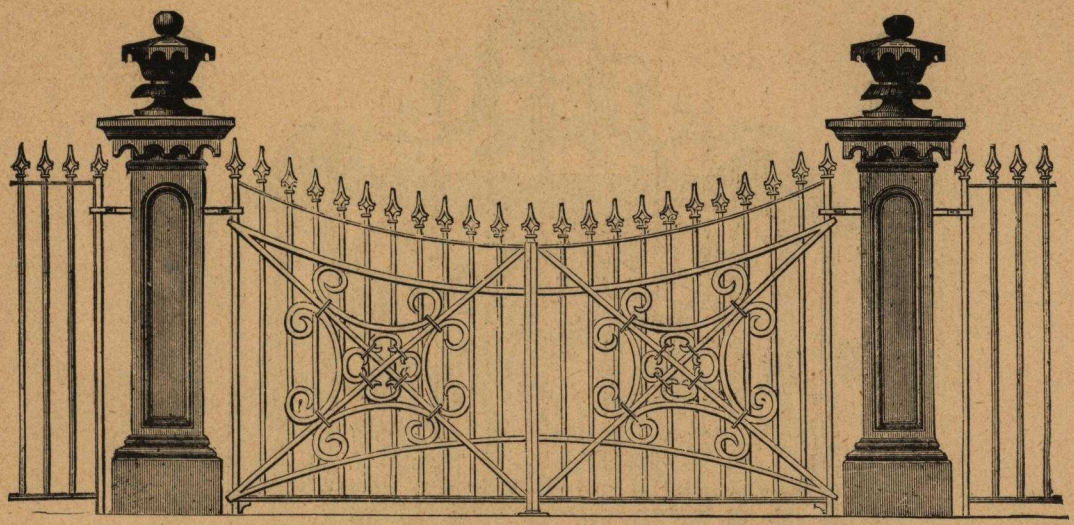
5 feet wide. Can be made any height.



No. 4.

4 feet 6 inches wide. 5 feet 8 inches high. Post No. 3, 4 feet 3 in. high; can be made any height.

GATES.



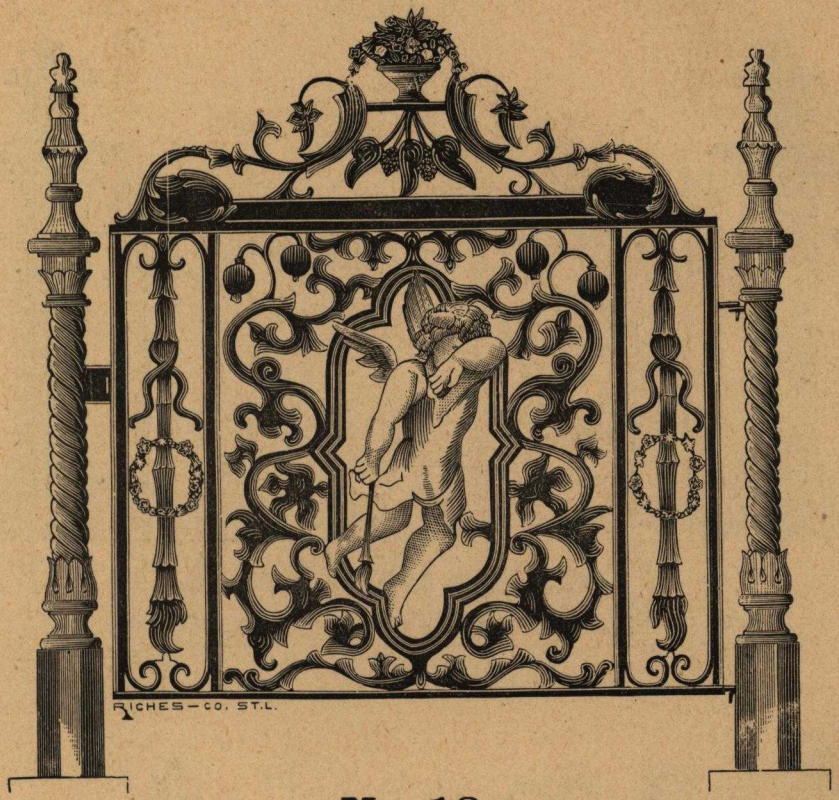
Carriage Gate No. 3.

10 feet wide; 6 feet high at Posts. Can be made any size.

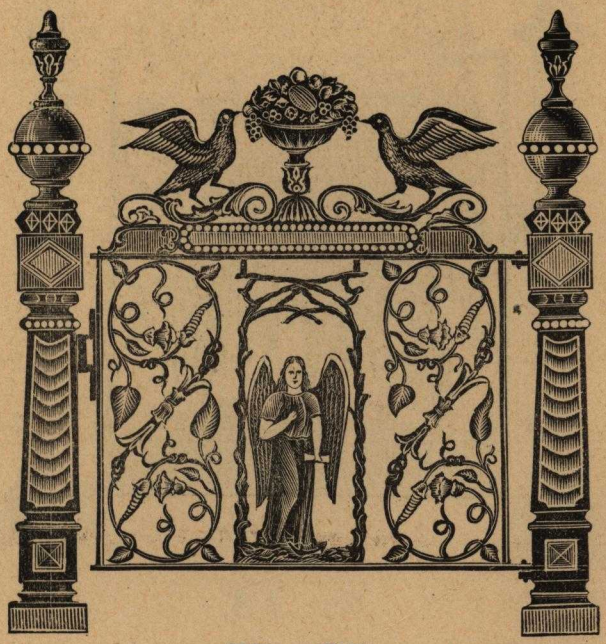
No. 13.

Willow Gate with Crosses, or Dove on Posts.

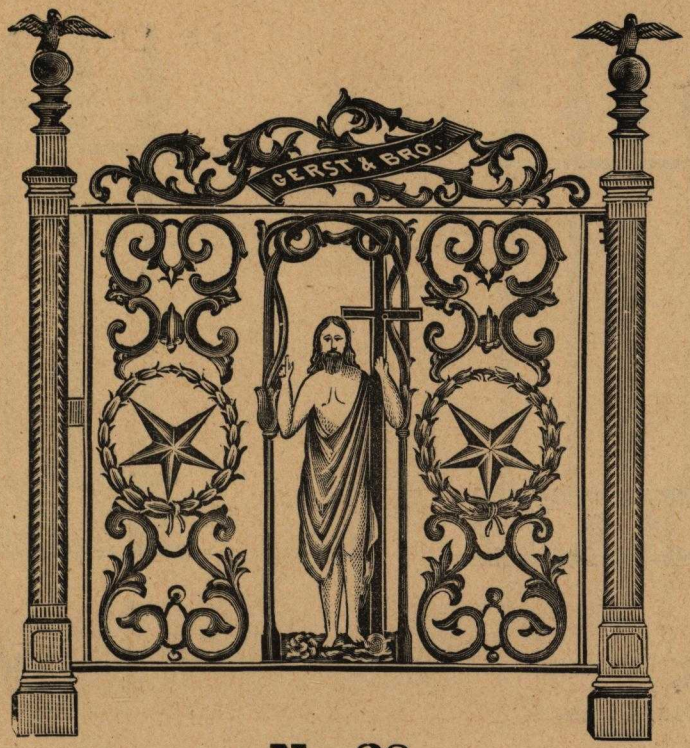
GATES.



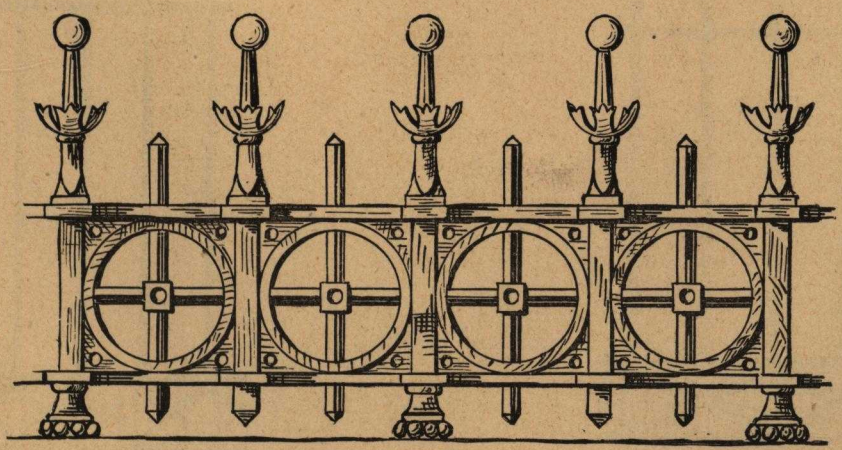
No. 18.
Angel Gate.



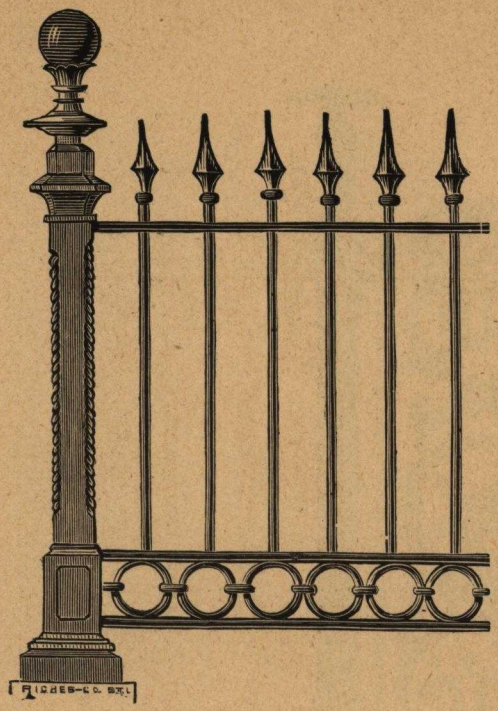
No. 25.
Angel Gate.



No. 28.
Gate.

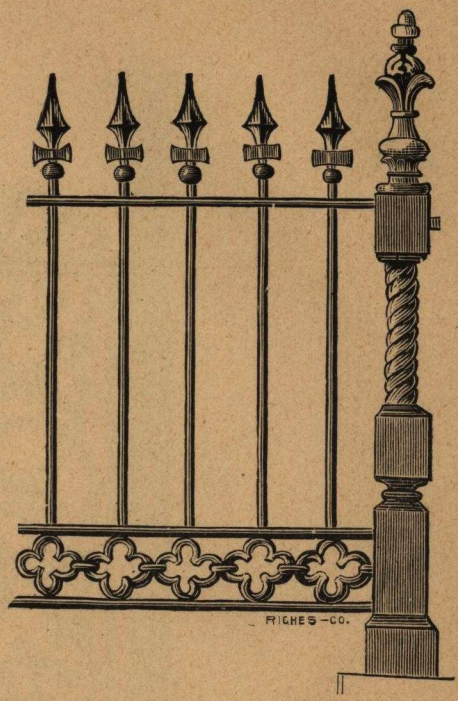


No. 52.
2 feet high.



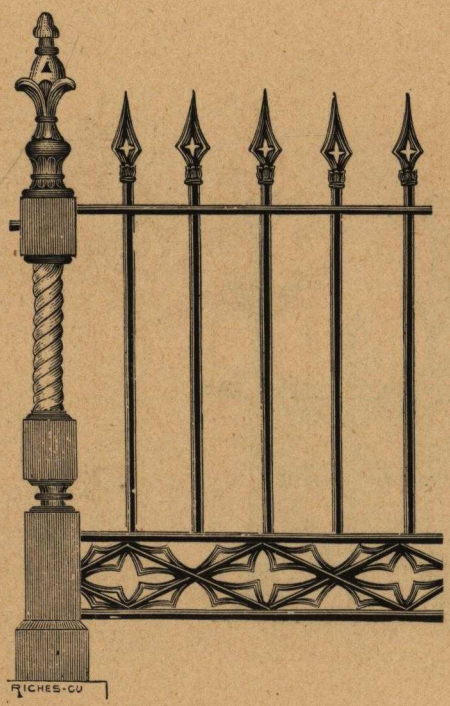
No. 6.

$\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$ and $\frac{3}{4}$ inch Round Iron.



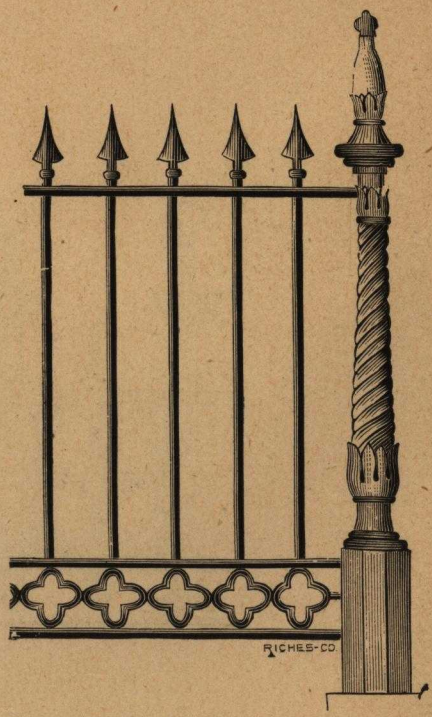
No. 7.

$\frac{3}{4}$ inch Round Iron.



No. 9.

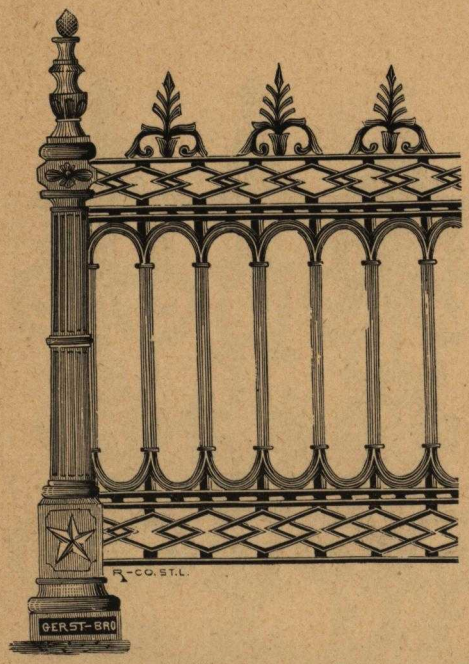
$\frac{1}{2}$, $\frac{5}{8}$ and $\frac{3}{4}$ inch Round Iron.



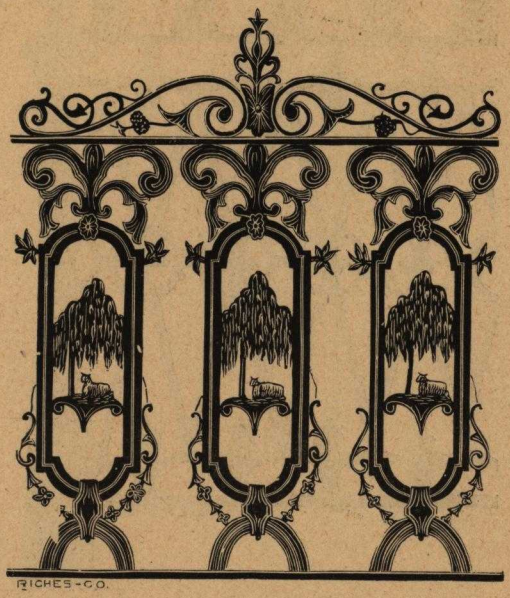
No. 10.

$\frac{1}{2}$ and $\frac{5}{8}$ inch Round Iron.

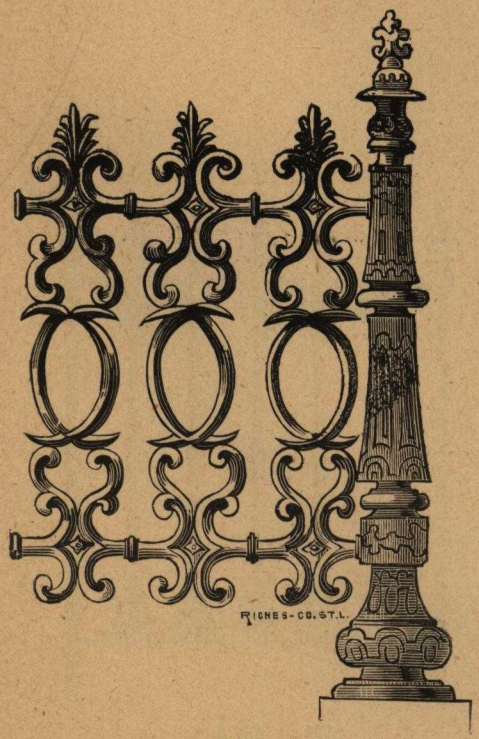
RAILINGS.



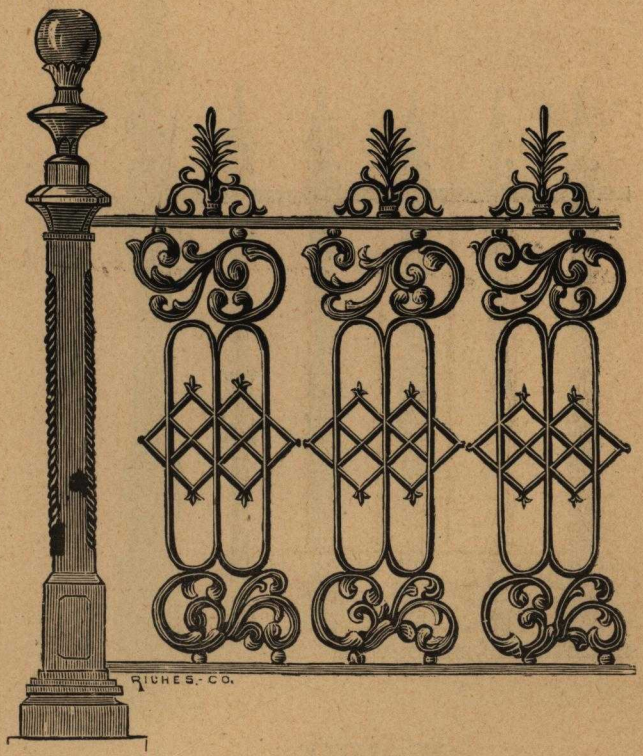
No. 11.
Finished on Two Sides.



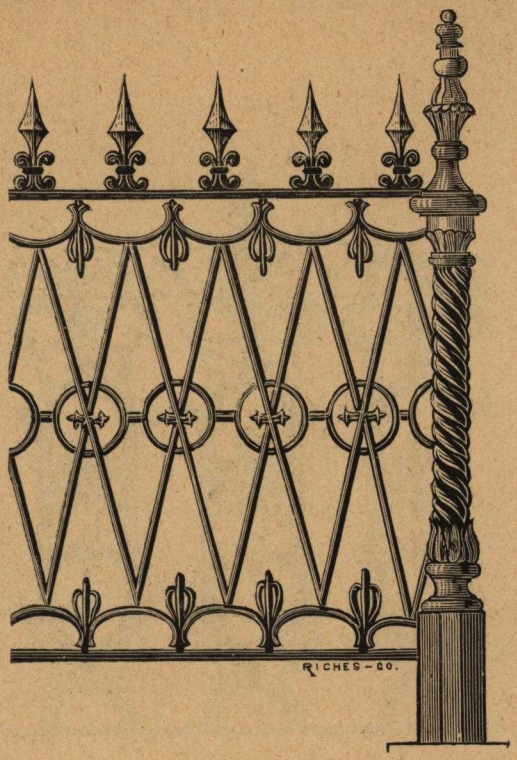
No. 12.
Finished on One Side.



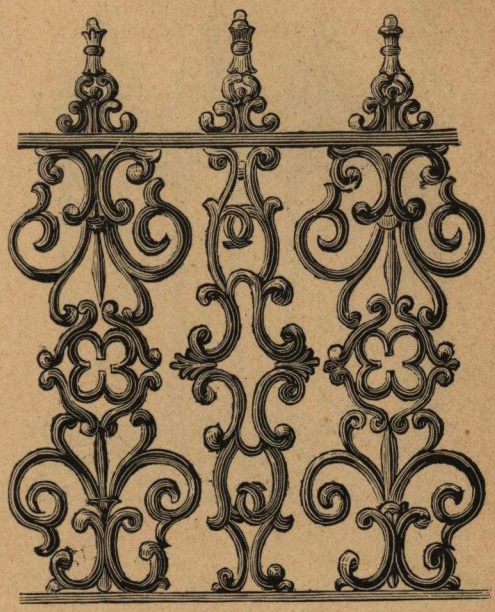
No. 15.
Finished on One Side.



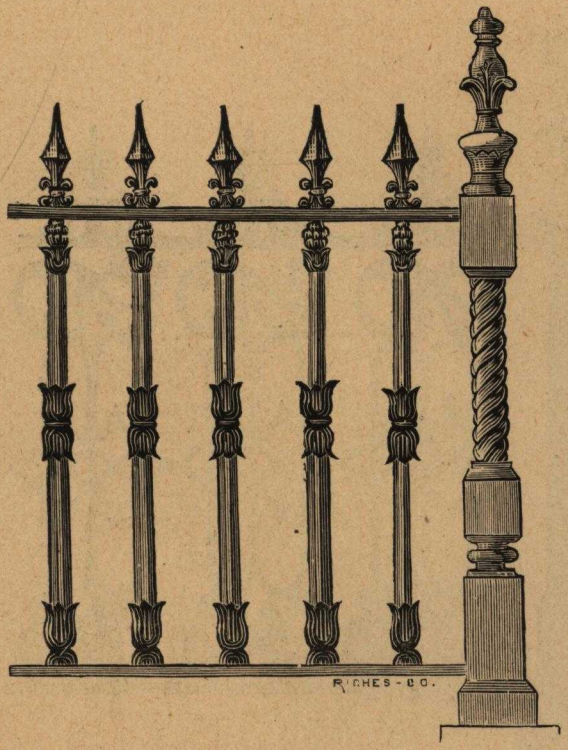
No. 16.
Finished on Two Sides.



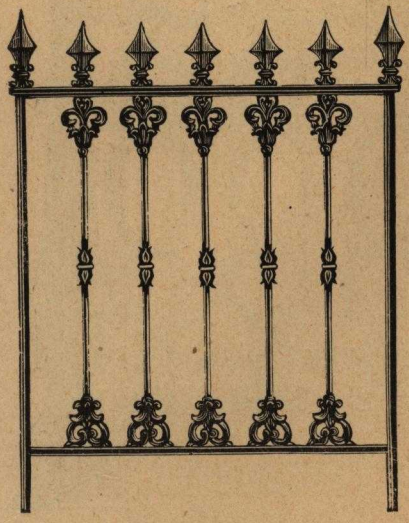
No. 17.
Finished on Two Sides.



No. 19.
Finished on One Side.

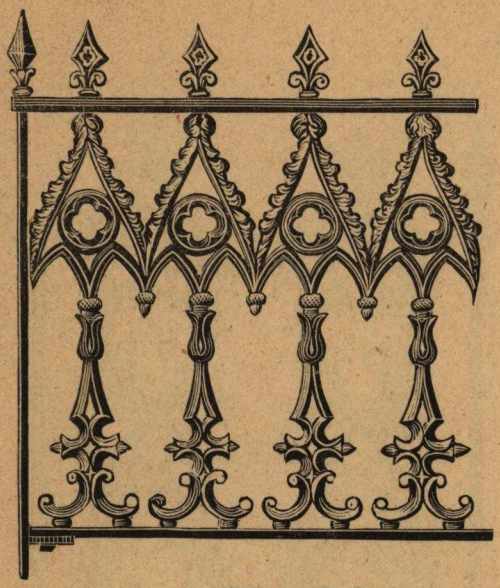


No. 20.
Finished on Two Sides.

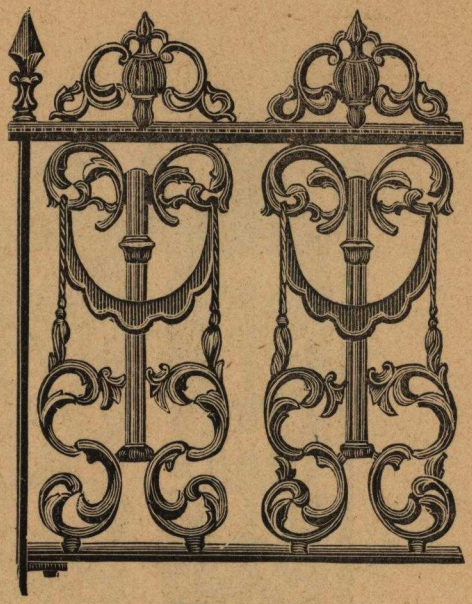


No. 21.
Wrought Iron with Cast Ornaments.
Finished on Two Sides.

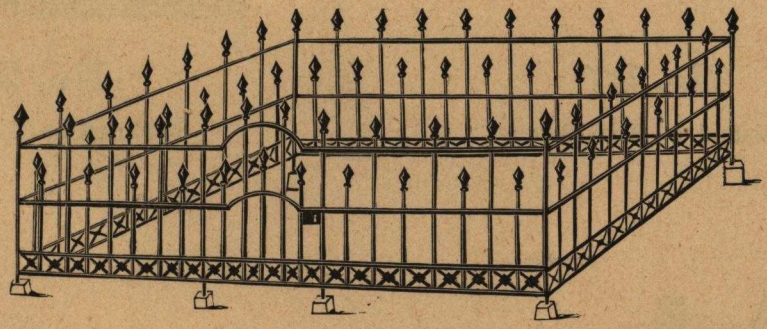
RAILINGS.



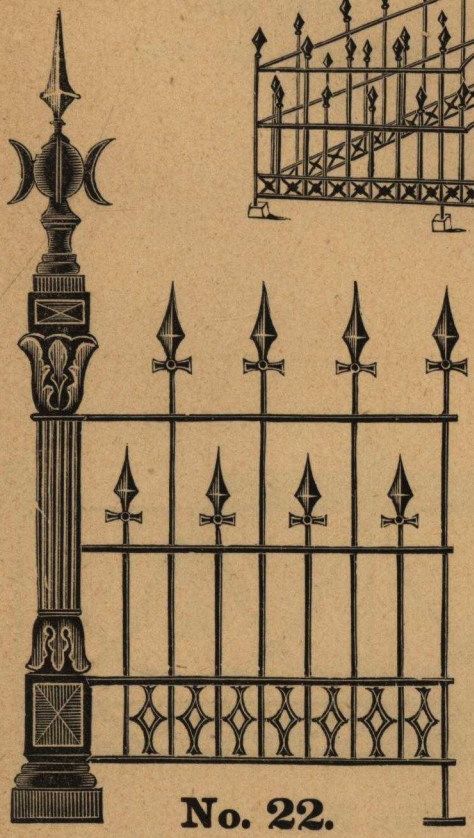
No. 24.
Finished on Two Sides.



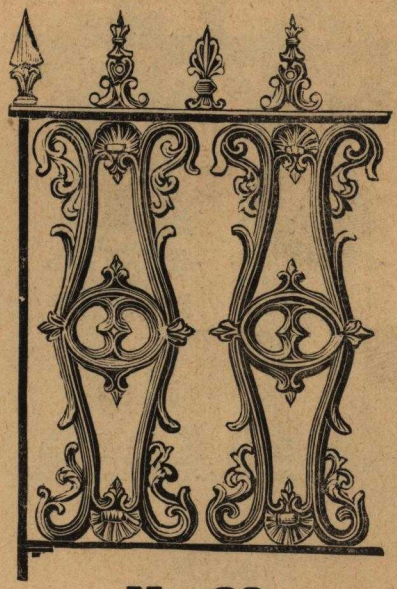
No. 26.
Finished on One Side.



No. 41.
Any Size.

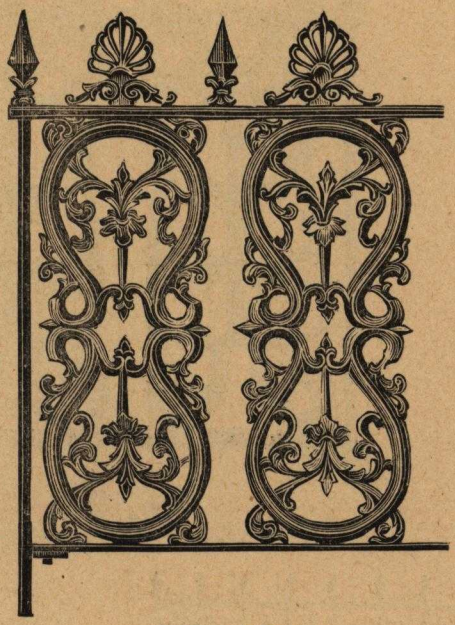


No. 22.
⅝ Inch Round Iron.
¾ " " "



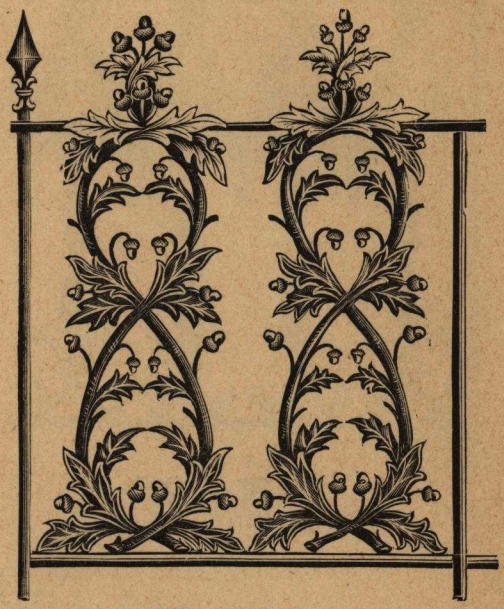
No. 23.
Finished on One Side.

RAILINGS.



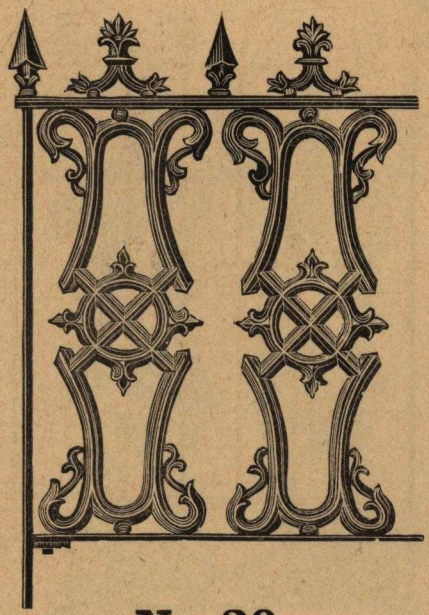
No. 27.

Finished on Two Sides.



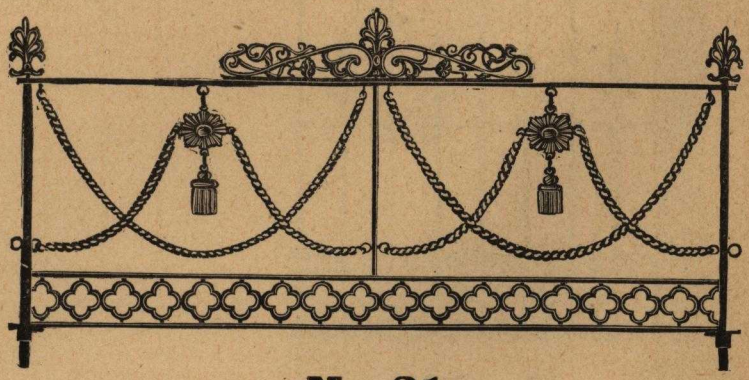
No. 29.

Finished on Two Sides.



No. 30.

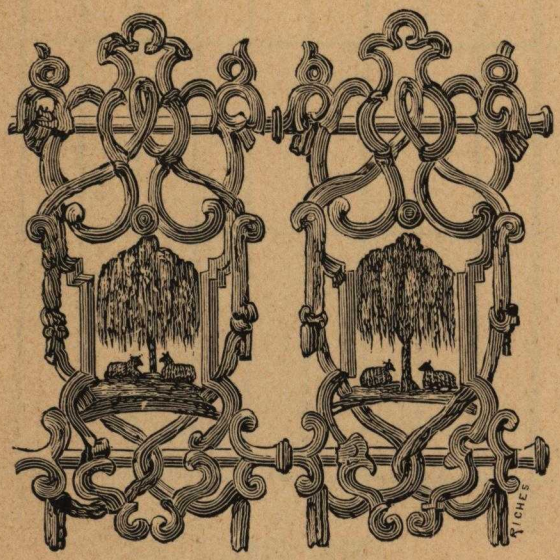
Finished on one Side.



No. 31.

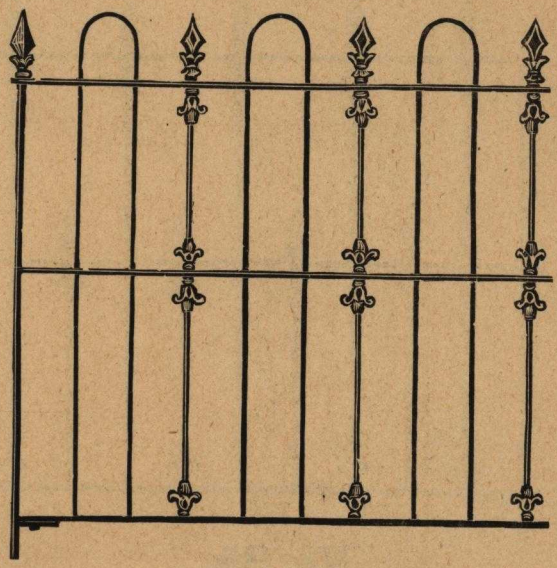
Finished on Two Sides.

RAILINGS.



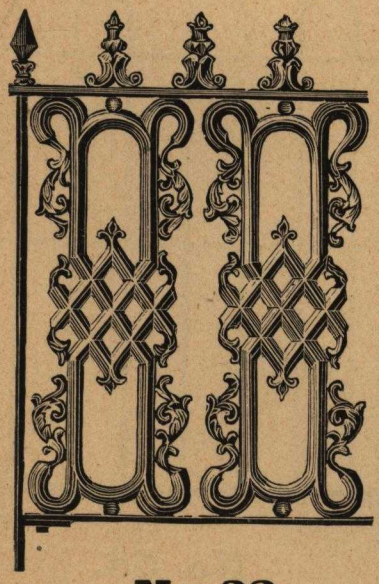
No. 14.

Finished on One Side—Extra Strong.



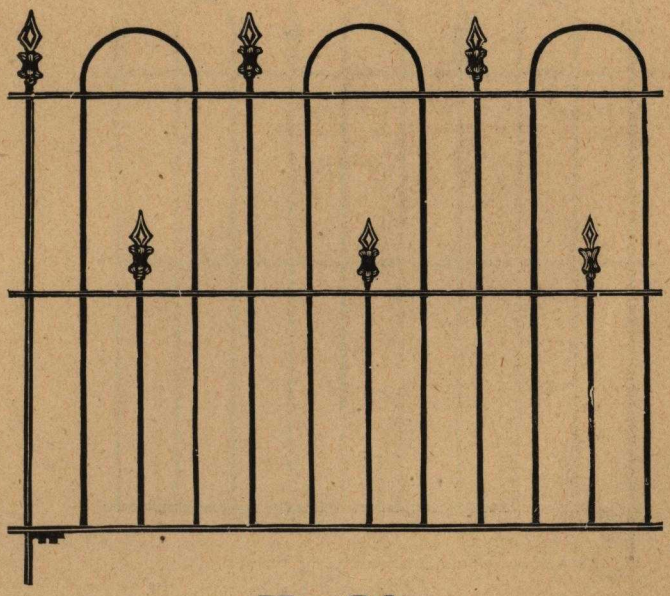
No. 33.

$\frac{5}{16}$ Inch Round Iron—with Ornaments.
$\frac{3}{8}$ " " " " "



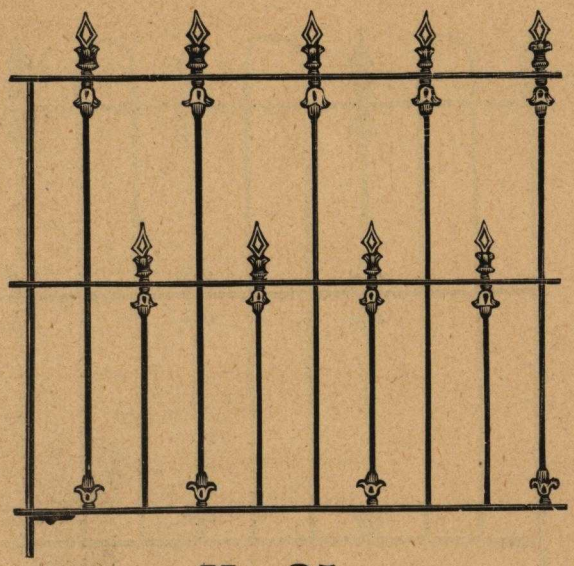
No. 32.

Finished on One Side.



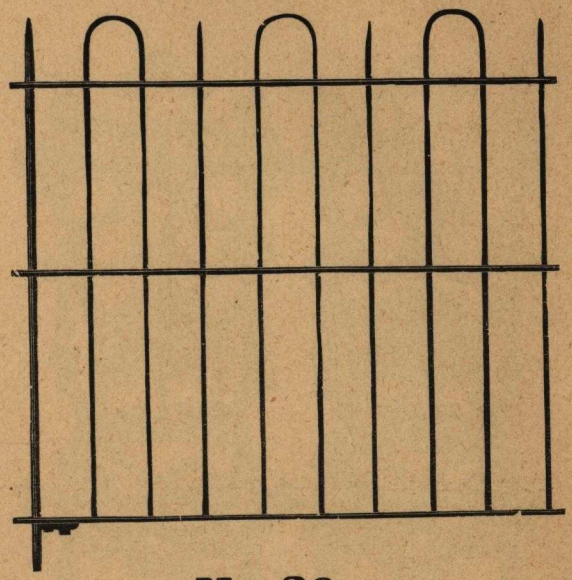
No. 34.

$\frac{5}{16}$ inch Round Iron—with Ornaments.
$\frac{3}{8}$ " " " " "



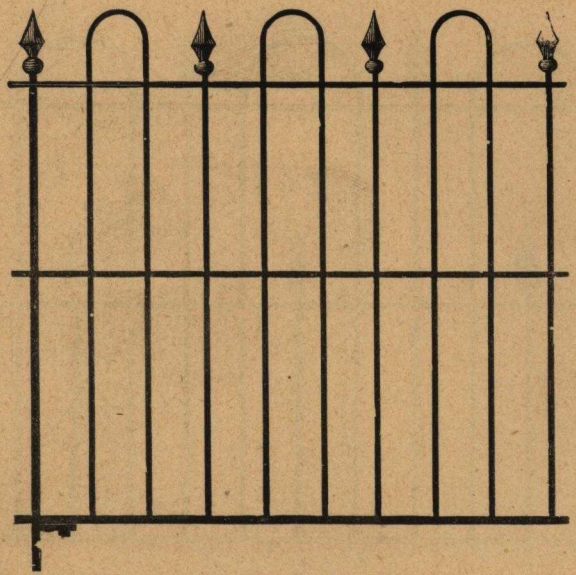
No. 35.

$\frac{5}{16}$ and $\frac{3}{8}$ inch Round Iron—with Ornaments.



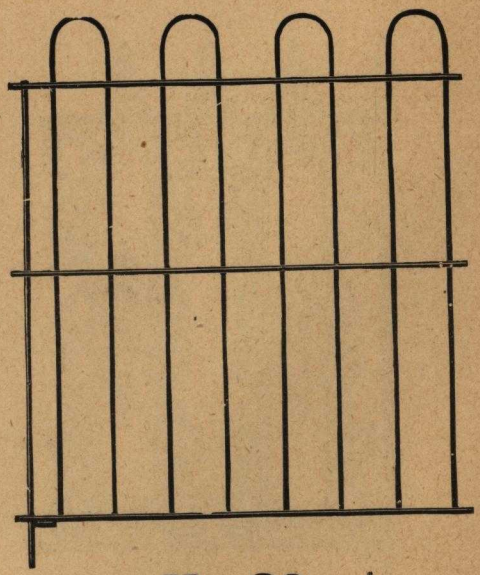
No. 36.

$\frac{5}{16}$ inch Round Iron—Plain.



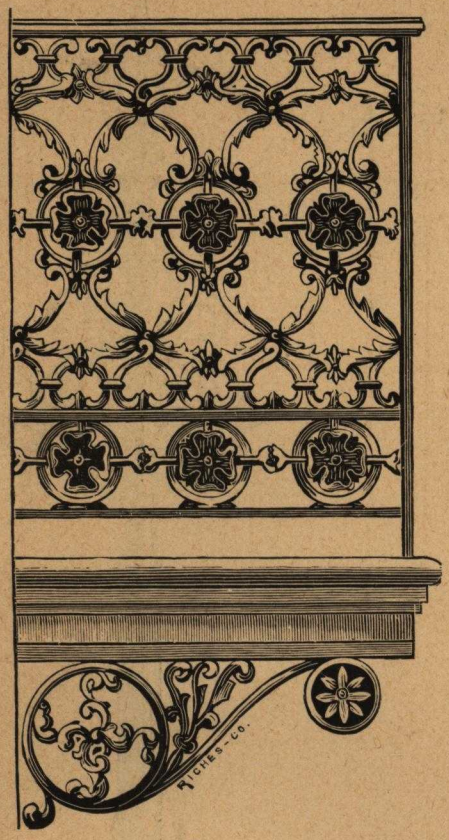
No. 37.

$\frac{5}{16}$ and $\frac{3}{8}$ inch Round Iron—with Pickets.



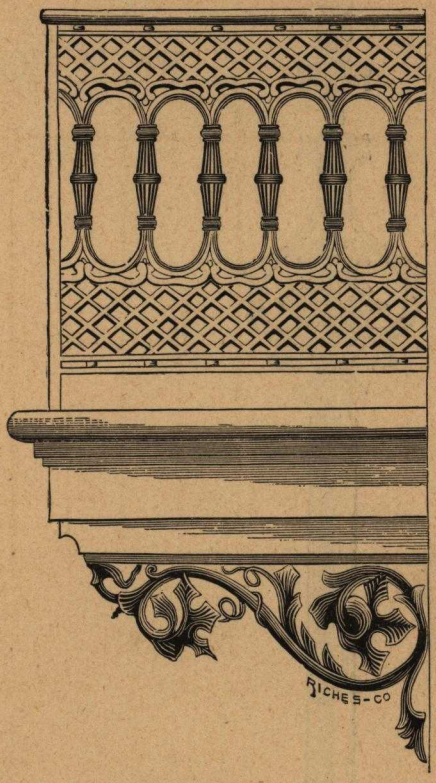
No. 38.

$\frac{5}{16}$ inch Round Iron—Plain Bows.



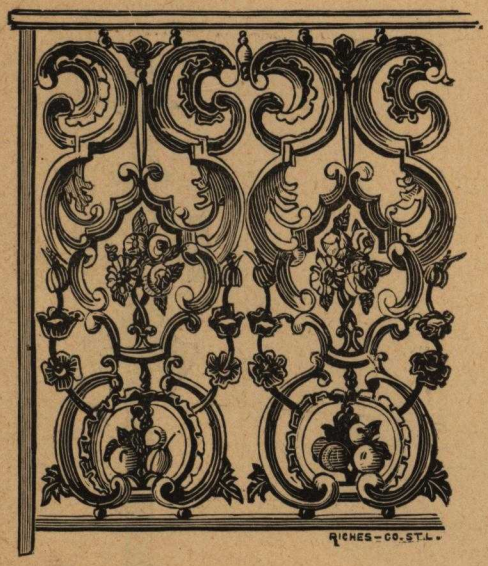
No. 1.

Finished on One Side.



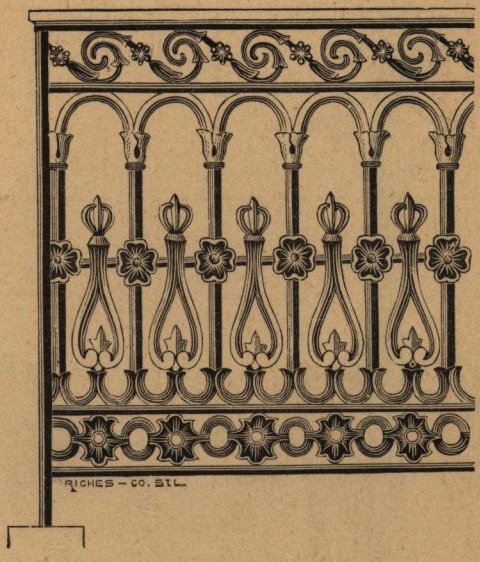
No. 5.

Finished on One Side.



No. 3.

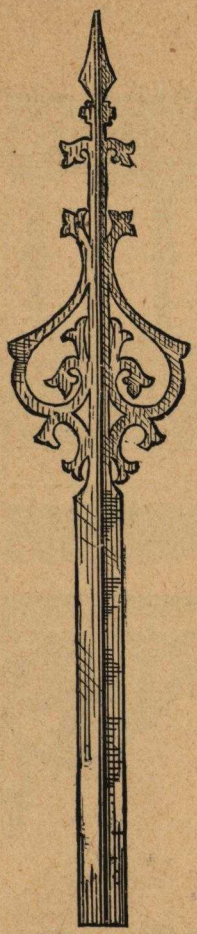
Finished on One Side.



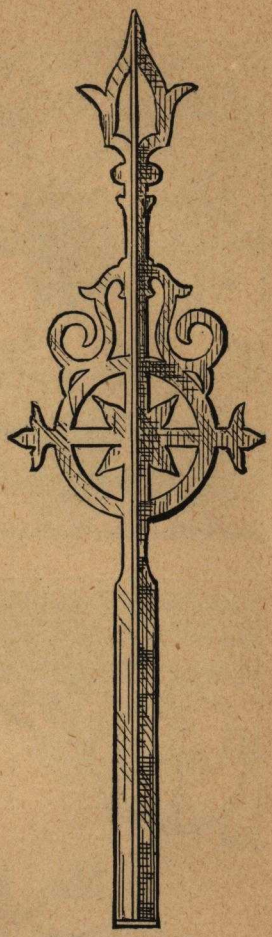
No. 2.

Finished on One Side.

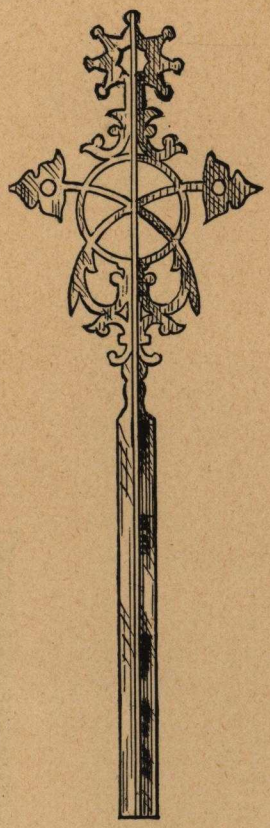
FINIALS FOR ROOF CRESTINGS.



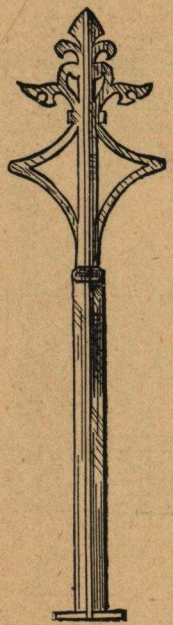
No. 5.
4 feet ½ in. high.



No. 12.
4 feet 3 inches high.



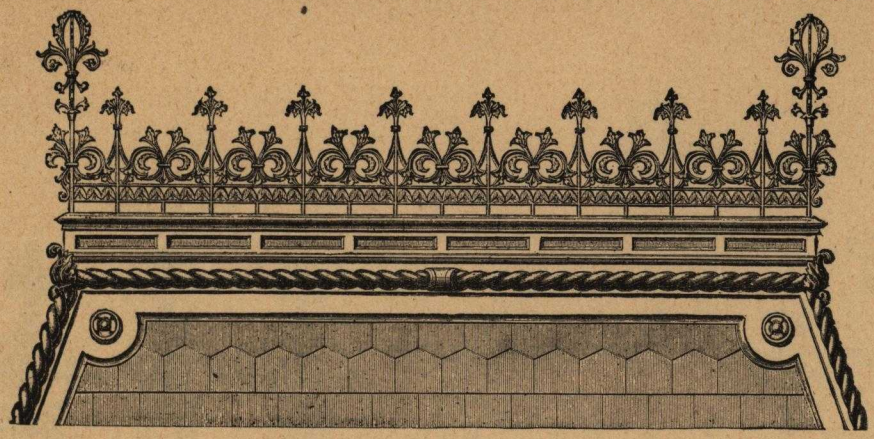
No. 11.
3 feet 10 inches high.



No. 8.
2 feet 10 inches high.

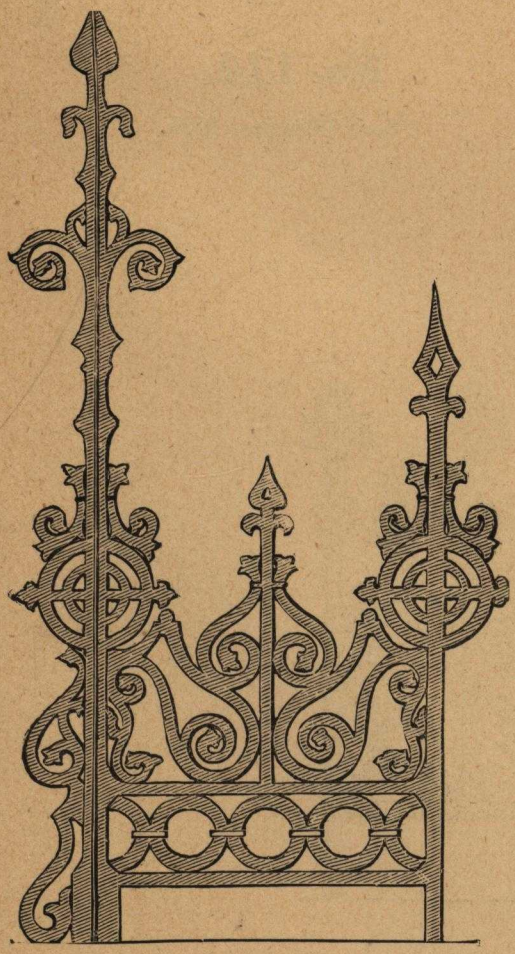
No. 4.
2 feet 7 inches high.

ROOF CRESTINGS AND FINIALS.

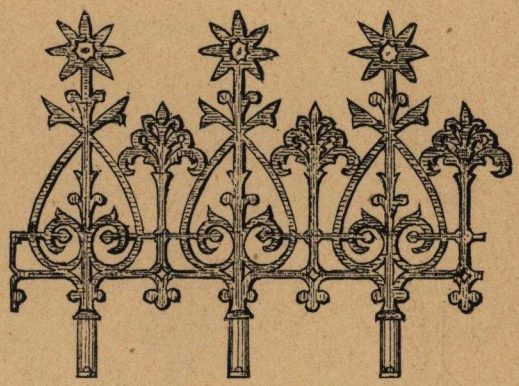


No. 101.
2 feet 2 inches high.

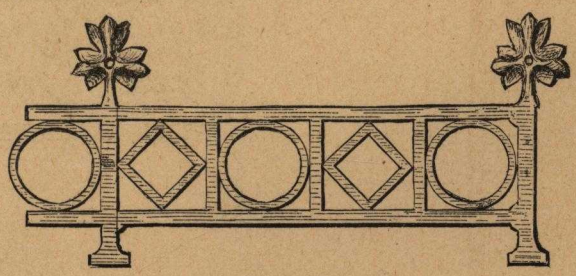
Parties ordering Roof Crestings will please give measures on Frieze of Cornices.



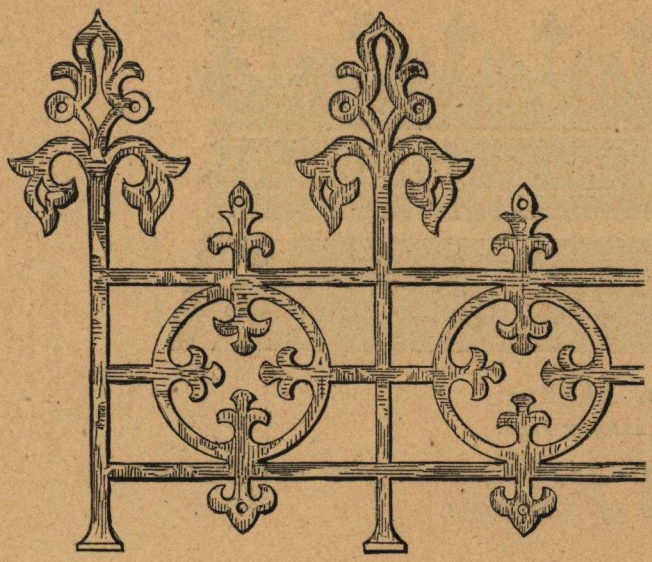
No. 116.
Cresting; 3 feet 5 inches high.
Finial No. 13, 4 feet 6 inches high.



No. 113.
1 foot 8½ inches high.

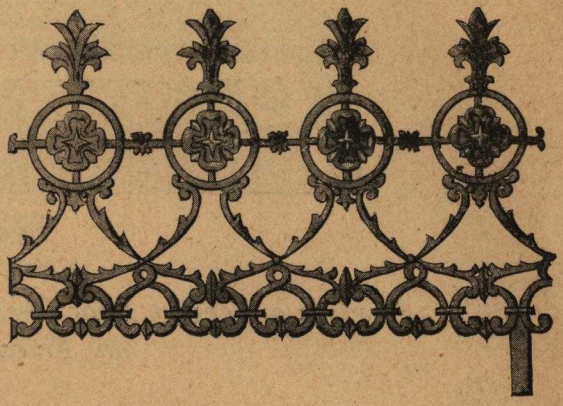


No. 105.
1 foot 1½ inches high.



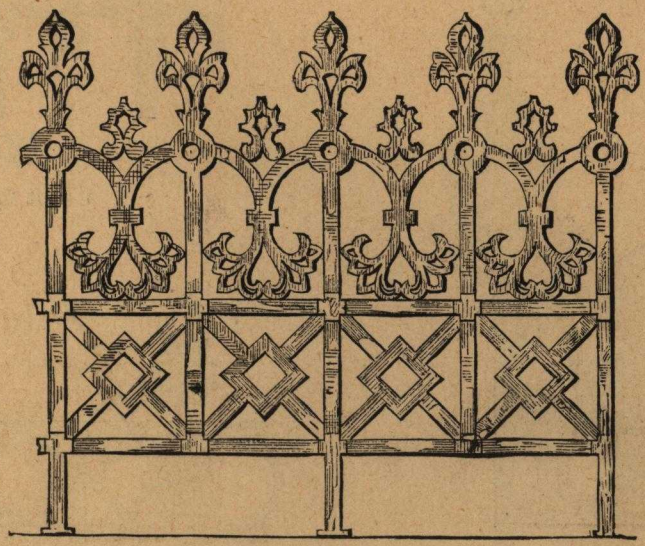
No. 107.

2 feet 6 inches high.



No. 114.

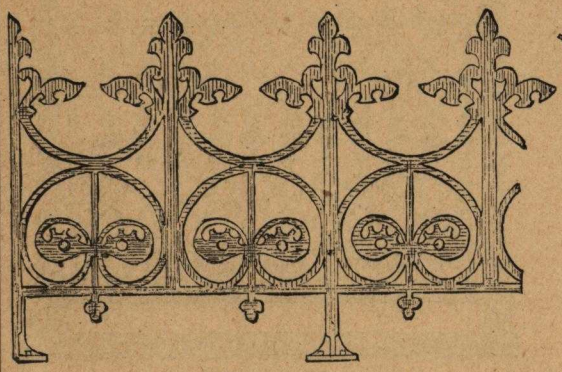
1 foot 10 inches high.



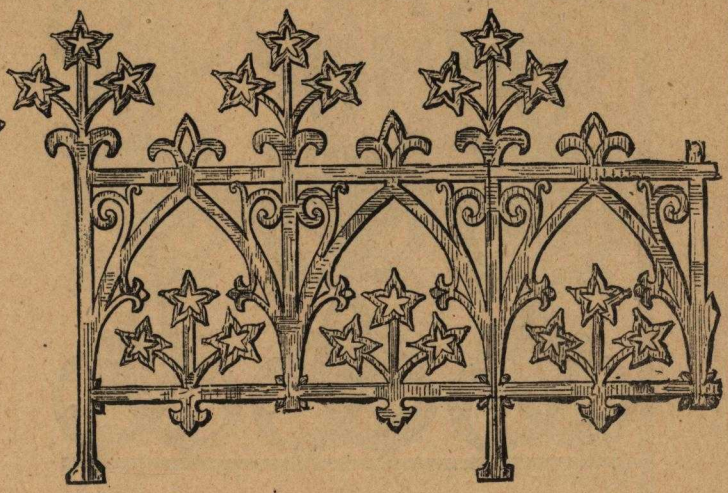
No. 111.

2 feet 4½ inches high.

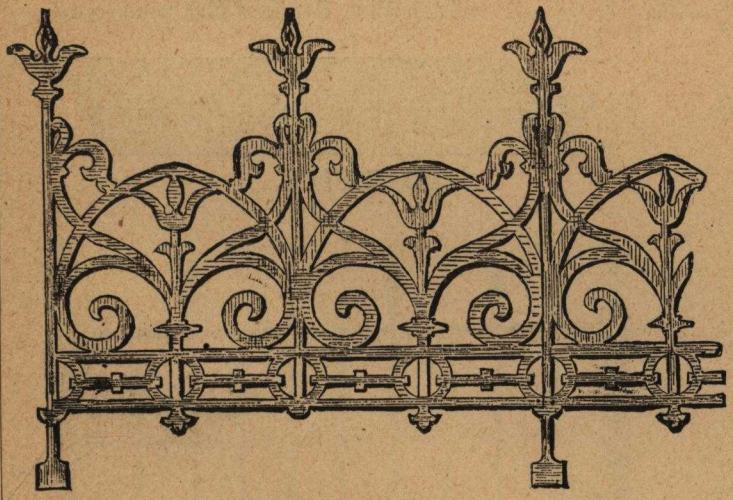
CRESTINGS.



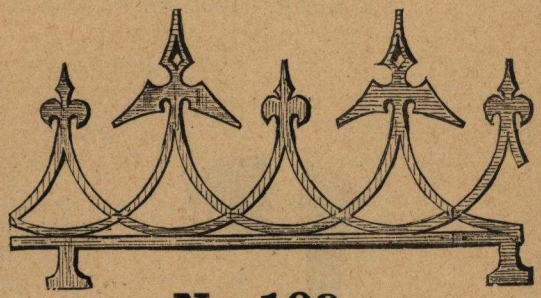
No. 3.
2 feet high.



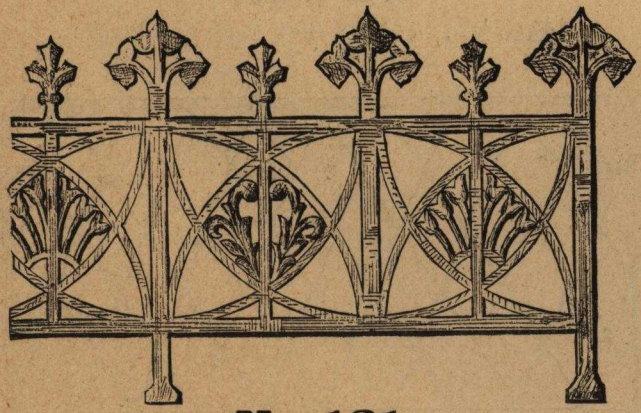
No. 119.
2 feet 2 inches high.



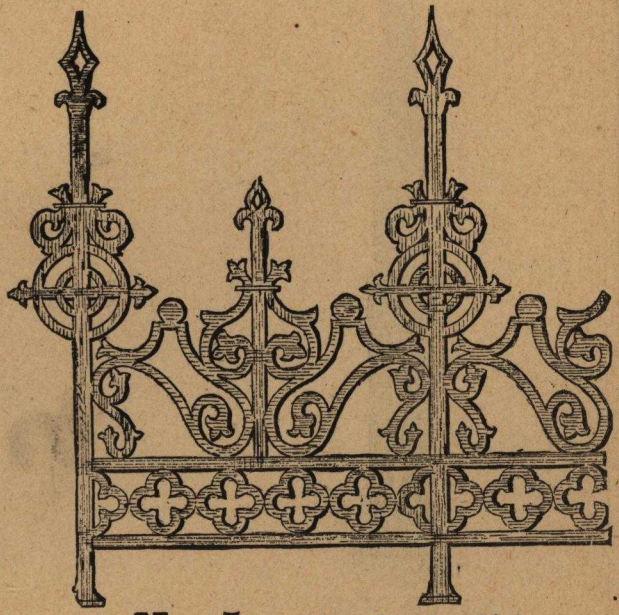
No. 20.
2 feet 4 inches high.



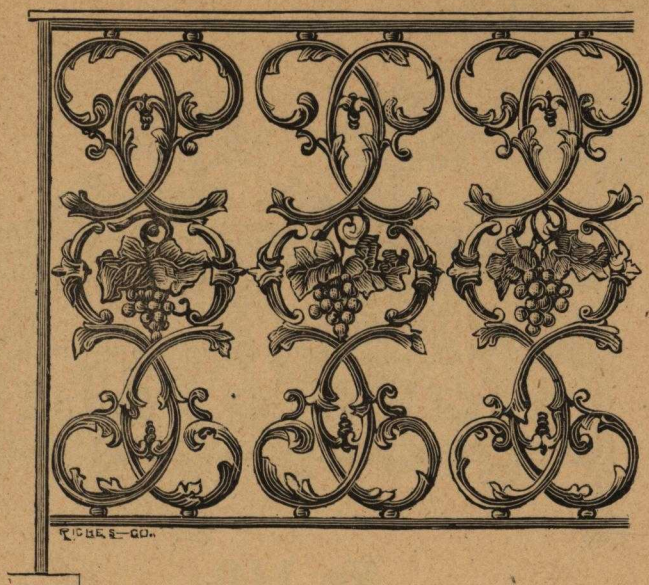
No. 109.
1 foot 3¼ inches high.



No. 121.
1 foot 9 inches high.

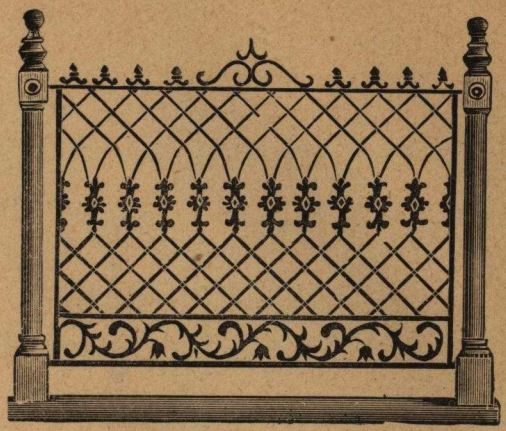


No. 5. 2 feet 7 inches high



No. 4.

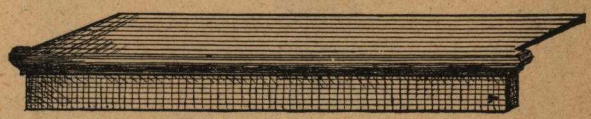
RAILING. Finished on One Side.



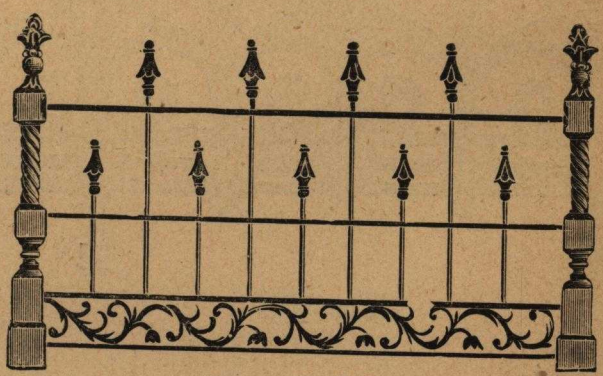
No. 141.

RAILING.

⅛ inch Wire Fence with Ornaments.

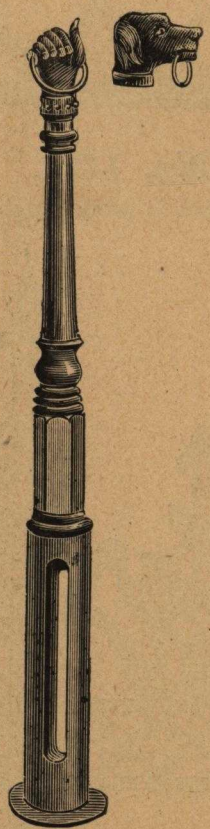


DOOR SILL.

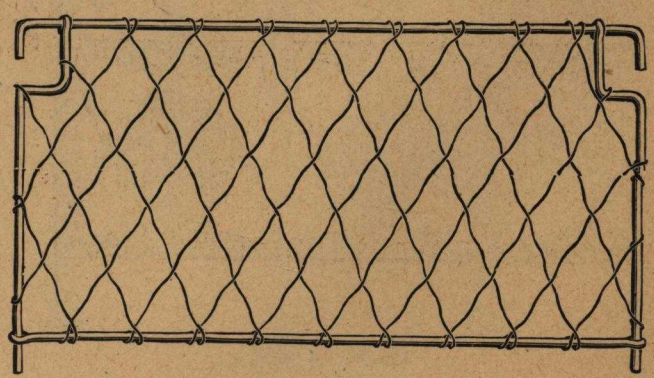


No. 140.

RAILING. ½ and ⅝ inch bars, any height.



HITCH POST.

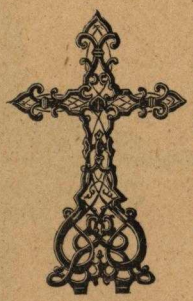


WIRE SCREEN. Any length and height.

IRON CROSSES.

— 2 feet. —

— 12 inches. —



— 2 feet 4¾ inches. —

—17 inches.—

No. 1.

— 2 feet 4 inches. —

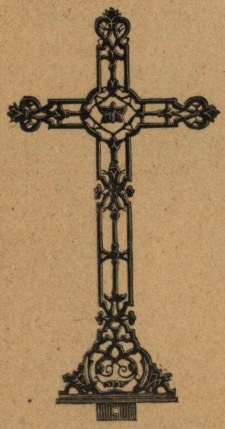
—1 foot 6 inches.—

No. 2.

— 2 feet 8 inches. —

—1 foot 7 inches.—

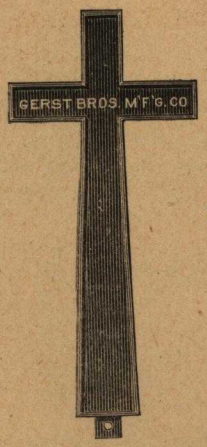
No. 3.



— 3 feet 7 inches. —

— 2 feet. —

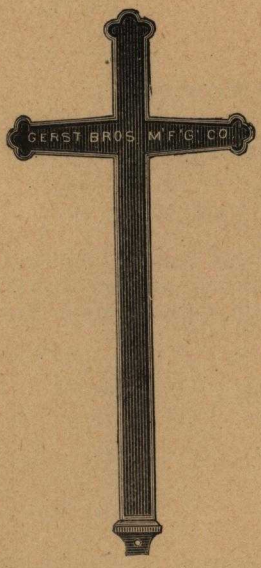
No. 4.



— 4 feet. —

—1 foot 7½ inches.—

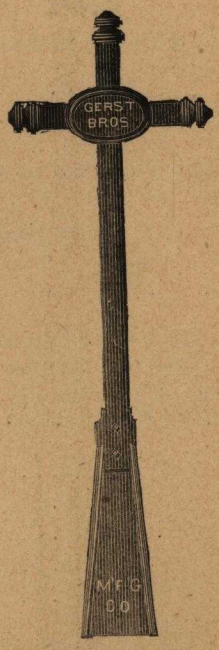
No. 5.



— 3 feet 9 inches. —

—1 foot 10½ inches —

No. 6.

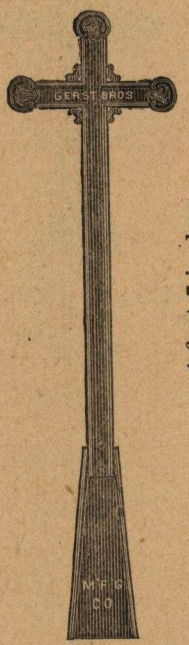


— 3 feet 3 inches. —

—1 foot 7 inches.—

No. 7.

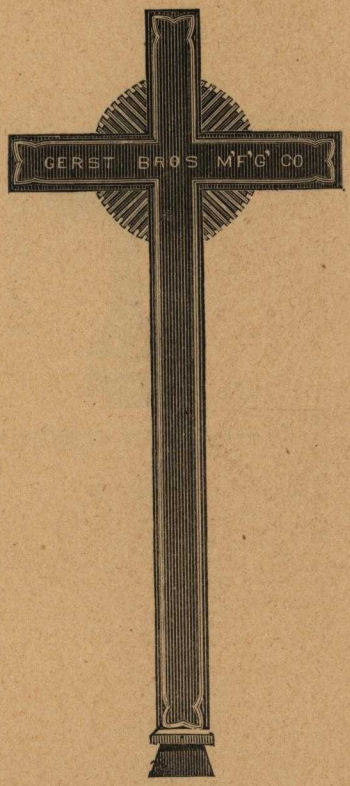
IRON CROSSES.



— 4 feet 7 inches. —

— 2 feet 4½ inches. —

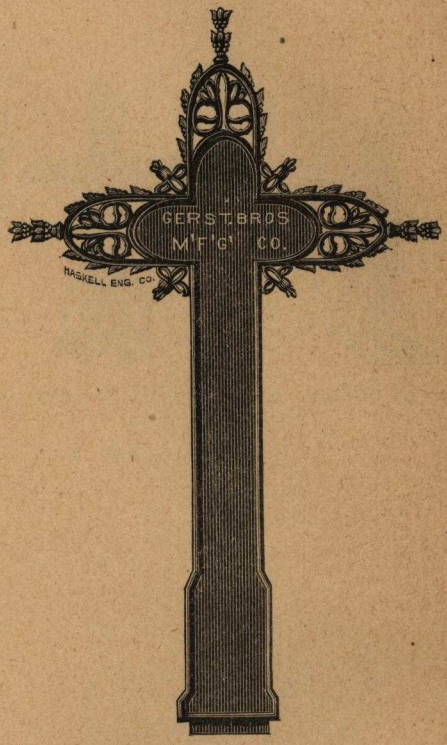
No. 8.



— 6 feet 6 inches. —

— 3 feet 0 inches. —

No. 9.



— 6 feet 1 inch. —

— 3 feet 9 inches. —

No. 10.

Cross No. 1 has no place for lettering.
" " 4 " " "
" " 2 has place for lettering 4½ in. x 3½ in.
" " 3 " " 5 " x 3½ "
" " 5 " " 1 ft. 1 " x 2½ "

Cross No. 6 has place for lettering 7½ in. x 5 in.
" " 7 " " 1 ft. 7 " x 3½ "
" " 8 " " 1 ft. 8 " x 3 "
" " 9 " " 2 ft. 0 " x 4 "
" " 10 " " 1 ft. 6 " x 6 "

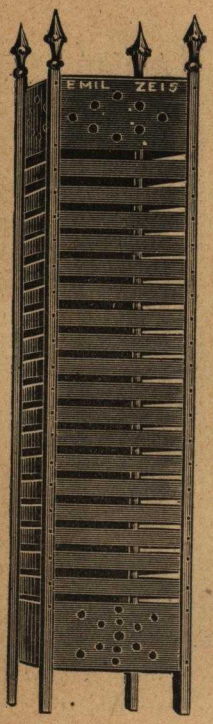
Bases for Crosses No. 7 and 8 are 2 feet long by 6 inches at bottom.

We will furnish free of charge on such Crosses that are described with place for lettering: The name of person, his or her age, date of his or her death. All extra lettering will be extra at the rate of 5c per letter.

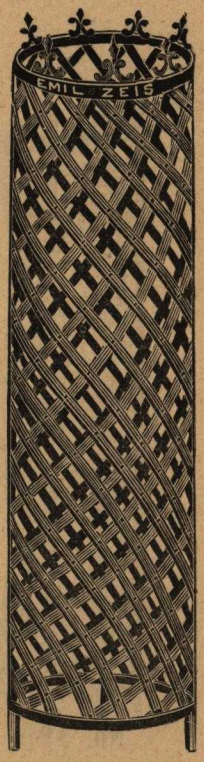
Cross No. 1	15 lbs.	$4 00	Cross No. 6	50 lbs.	$7.50
" No. 2	21 "	4.20	" No. 7	30 "	5.00
" No. 3	20 "	5.00	" No. 8	50 "	10.00
" No. 4	35 "	8.75	" No. 9	150 "	15.00
" No. 5	45 "	7.50	" No. 10	130 "	20.00

Those prices are for Crosses painted in prime color. If parties ordering crosses desire to have them finished in black color with lettering painted white or bronzed there will be an extra cost of from $3.00 to $5 00. according to size of cross ordered. Not responsible for any damage done to crosses in shipping such, as breakage or damage done to painting or lettering. Iron Railings and Fences a specialty. Send for Catalogue and Price-list.

TREE BOXES.

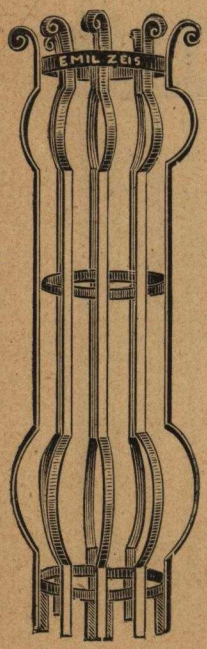


No. 122.



No. 123.

No. 124.

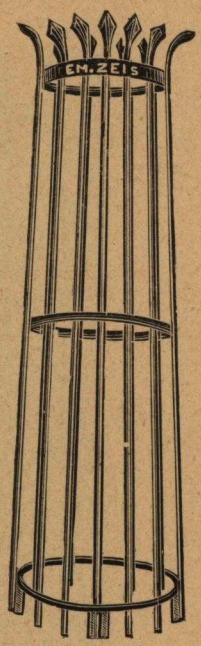


No. 125.

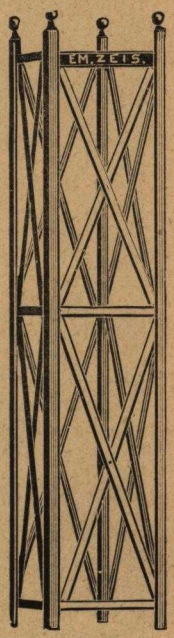
No. 126.

No. 127.

TREE BOXES.



No. 128.



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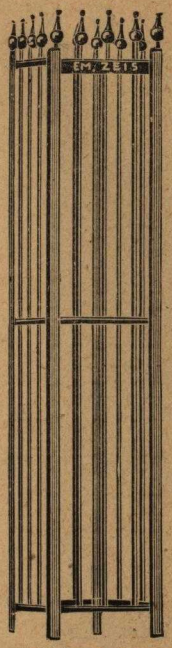

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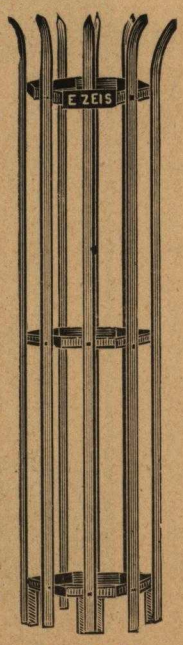

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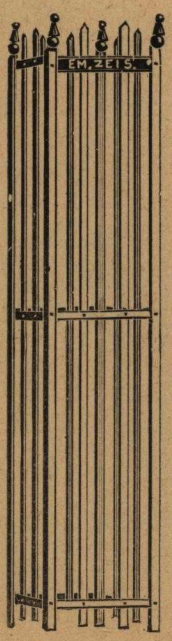

No. 132.

No. 133.

TABLE of STRENGTH of WROUGHT IRON BEAMS.

AS GIVEN BY "UNION IRON MILLS."

The weight is given in tons of 2,000 pounds avoirdupois, and is supposed to be equally distributed over the whole beam.

		FEET BETWEEN BEARINGS.										
		10	12	14	16	18	20	22	24	26	28	30
4 inches	Light	1.4	1.1	1.	.9							
	Heavy	1.6	1.4	1.2	1.							
5 inches	Light	2.2	1.8	1.6	1.3	1.2	1.1					
	Heavy	2.6	2.1	1.8	1.6	1.4	1.3					
6 inches	Light	3.8	3.2	2.7	2.4	2.1	1.9	1.7	1.5	1.5		
	Heavy	4.5	3.8	3.2	2 8	2.5	2.3	2.1	1.7	1.7		
7 inches	Light	6.2	5.2	4.4	3.9	3.4	3.1	2.8	2.6	2.4	2.2	2.1
	Heavy	6.6	5.5	4.7	4.1	3.7	3.3	3.	2.6	2.5	2.4	2.2
8 inches	Light	8.2	6.8	5.9	5.1	4.6	4.1	3.7	3.3	3.2	2.9	2.7
	Heavy	9.9	8.3	7.1	6.2	5.5	5.	4.5	4.1	3.8	3.5	3.3
9 inches	Light	10.	8.6	7.3	6.4	5.8	5.	4.7	4.3	4.	3.7	3.4
	Heavy	12.3	10.2	8.8	7.7	6.9	6.1	5.6	5.1	4.8	4.4	4.1
10 inches	Light	13.9	11.6	9.9	8.7	7.7	6.9	6.3	5.8	5.4	4.9	4.6
	Heavy	16.4	13.6	11.7	10.3	9	8.2	7.5	6.8	6.3	5.9	5.5
12 inches	Light	20.8	17.3	14.8	13.	11.6	10.4	9.5	8.7	8.	7.4	6.9
	Heavy	29.1	24.2	20.8	18 2	16.2	14.6	13.2	12.1	11.2	10.4	9.7
15 inches	Light	32.9	27.4	23.5	20.5	18.3	16.4	14.9	13.7	12.6	11.8	11.
	Heavy	42.4	35.3	30.3	26.5	23.6	21.2	19.3	17.7	16.3	15.1	14.

Weights of various Materials used in Construction of Buildings.

	Per Cubic foot.
Loose Common Cement	54 lbs.
Loose Portland Cement	96 "
Earth loose	75 "
Clay	128 "
Clay and Stones	160 "
Common Window Glass	157 "
Limestone	156 "
Marble	172 "
Quick Lime	95 "
Masonry, fresh	160 "
Masonry, dry	125 "
Brickwork	125 "
Sand, dry	98 "

	Per Cubic Foot.
Sand, wet	130 lbs.
Slate	175 "
Ash Timber	38 "
Chestnut	41 "
Hickory	53 "
Maple	49 "
Oak, Common	59 "
Oak, White	51 "
Oak, Red	38 "
Pine, White	25 "
Pine, Yellow	34½ "
Walnut	38 "
Spruce	25 "

Green Timbers One-Half Heavier than Dry.

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Anchors and Anchor Heads 13
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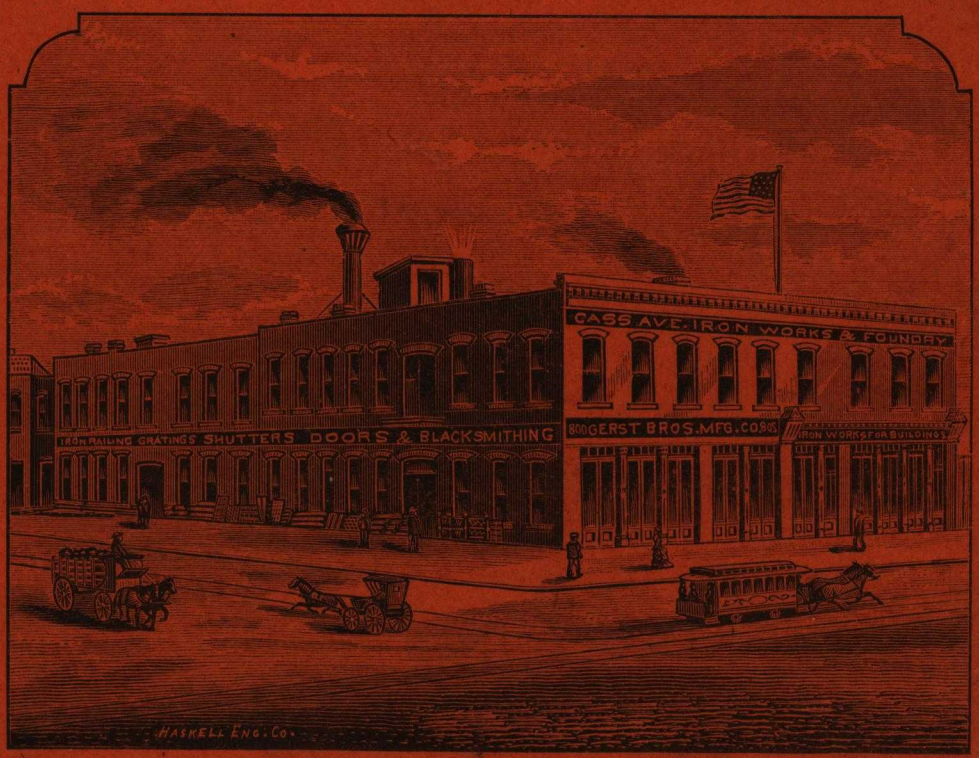
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